



BIOLOGY

BOOKS - DINESH PUBLICATION ENGLISH

ENVIRONMENTAL ISSUES

MCQ

1. The pollution which are already present in nature, but are released in substantial amounts by man are known as

A. Quantitative pollutants

B. Qualitative pollutants

C. Degradable pollutants

D. Primary pollutants

Answer: A



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2. What is biological magnification ? Explain how DDT as a water pollutant undergoes biological magnification .

A. Green house effect

B. biomagnification

C. Eutrophication

D. Pollution.

Answer: B



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3. Smog is produced due to

A. Air and metal dust

B. Water and nitrogen oxide

C. Smoke and fog

D. None of the above

Answer: C



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4. Photochemical smog is formed in

A. Nitrogen oxides

B. Hydrocarbons

C. Nitrogen oxides and hydrocarbons

D. Solar radiations upon nitrogen oxides and hydrocarbons.

Answer: D



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5. In troposphere, O_3 promotes

- A. Oxidation of biochemicals
- B. Destruction of chlorenchyma
- C. Both A and B
- D. Growth of plants

Answer: C



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6. In metropolitan cities, the automobiles causes air pollution

A. 0.8

B. 0.6

C. 0.5

D. 1

Answer: A



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7. Bhopal gas tragedy was due to

- A. Air pollution
- B. soil pollution
- C. water pollution
- D. none of the above

Answer: A



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8. In 1984, Bhopal gas tragedy was caused due to the leakage of

A. air pollution

B. soil pollution

C. Toxic

D. banglore.

Answer: C



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9. When huge amount of sewage is dumped into a river, its BOD will

- A. Increases
- B. Decreases
- C. Slightly decreases
- D. remains unchanged.

Answer: A



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10. Jet aeroplanes releases pollutants in air called

A. smog

B. photo-chemical oxidants

C. Aerosols

D. Algae and bacteria.

Answer: C



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11. Fertilizers, pesticides and insecticides may causes

- A. air pollution
- B. water pollution
- C. Both A and B
- D. None of the above

Answer: C



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12. Pollutants directly emanating from human activities are

- A. Quantitative pollutants
- B. Qualitative pollutants
- C. Air pollutants
- D. Water pollutants.

Answer: B



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13. Atmospheric pollutants formed by human activities constitute of the total

A. 0.95

B. 0.75

C. 0.25

D. 0.0005

Answer: D



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14. Most atmospheric pollutants do not rise above

A. 600 m

B. 1000 m

C. 2000 m

D. 200 m

Answer: A



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15. Aerosol is a system of colloidal particles having a size of

A. $5\mu m$

B. $1 - 2\mu m$

C. less than $100\mu m$

D. more than $10\mu m$

Answer: C



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16. A secondary pollutant is

A. O_3

B. CO

C. CH_4

D. Pb.

Answer: A



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17. A colourless, nonirritant , highly toxic gas that impairs respiration is

A. SO_2

B. NO_2

C. CO_2

D. CO.

Answer: D



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18. Lead pollution in cities is mainly due to

A. lead pencils

B. batteries

C. automobiles

D. electronic gadgets.

Answer: C



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19. Pollutants likely to deplete ozone layers is

A. CO

B. nitrogen oxides

C. Chlorofluorocarbons

D. Both B and C

Answer: D



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20. Acid rain is caused by increase in the atmospheric concentration of

A. Excess production of coal gas

B. excess releases of CO_2 due to increasing combustion and respiration

C. Excess releases of SO_2 and NO_2 from burning fossils fuels

D. Excess production of gaseous hydrocarbons.

Answer: C



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21. SO_2 pollution is indicated by destruction of

A. Climbers

B. Lichens

C. Mosses

D. Grasses.

Answer: B



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22. What is freon ?

A. Ferrous sulphide pollutant

B. Chlorofluorocarbons

C. Iron containing polycyclic hydrocarbons

D. Metal fluoride.

Answer: B



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23. Maximum atmospheric NO_2 pollution is found in

A. Baroda/Vadodra

B. Chennai

C. Nagpur

D. Mumbai.

Answer: A



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24. Photochemical smog involves

- A. Defoliation
- B. Bleaching and blazing of foliage
- C. Floral bud shedding
- D. discolouration and curling of petals.

Answer: B



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25. Water soaked appearance of leaves due to sulphur dioxide pollution is caused by

- A. Destruction of chlorophyll
- B. Damage to membranes
- C. Both A and B
- D. Corrosive action over metals.

Answer: C



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26. In addition to SO_2 , metals and textiles are damaged by

- A. Nitrogen oxides
- B. fluorides
- C. carbon monoxides
- D. aldehydes.

Answer: A



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27. Photochemical reaction of nitrogen oxides with unsaturated hydrocarbons produces

- A. methyl isocyanate
- B. phosgene
- C. Benzpyrene
- D. peroxy-acyl nitrates.

Answer: D



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28. Level of atmospheric CO_2 has increased in 2000 from

- A. 280 ppm to 360 ppm
- B. 250 ppm to 300 ppm
- C. 300 ppm to 340 ppm
- D. 330 ppm to 350 ppm

Answer: A



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29. Gravity settling tanks/porous filters are used to remove particles larger than

A. $2\mu m$

B. $50\mu m$

C. $20\mu m$

D. $10\mu m$

Answer: B



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30. Electrostatic precipitators are employed to remove particulate pollutants of the size of

A. $5 - 20\mu m$

B. $20 - 50\mu m$

C. $50\mu m$ and larger

D. $0.5 - 5.0\mu m$.

Answer: A



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31. B.O.D is related to

- A. detergents
- B. putrescibility
- C. inorganic pollutants
- D. organic pollutants.

Answer: D



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32. A persistent insecticide is

- A. Organophosphates
- B. carbamates
- C. Thiocarbamates
- D. Chlorinated hydrocarbons.

Answer: D



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33. An organochlorine insecticide is

- A. DDT/aldrin
- B. Malathion

C. Tetraethyl pyrophosphate

D. Thiocarbamate

Answer: A



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34. Domestic waste constitutes

A. Effluent

B. Biodegradable

C. Nonbiodegradable

D. Air pollutant

Answer: B



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35. The first atomic bomb was thrown over

A. Nagasaki

B. Hiroshima

C. Tokyo

D. Hong kong

Answer: B



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36. Atomic bomb was used during world war II in

A. 1941

B. 1939

C. 1943

D. 1945

Answer: D



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37. Atomic explosion has the ability to make radioactive material

A. Iodine -131

B. Cesium-137

C. Strontium -90

D. All the above

Answer: D



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38. The most significant attribute of noise is its

- A. duration
- B. unpleasant nature
- C. Loudness
- D. Frequency

Answer: C



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39. Loud noise causes

A. Irritation

B. Irrationality

C. Impairment of hearing

D. Dilation of blood vessels.

Answer: C



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40. The first effect of noise is

A. Constriction of blood vessels

B. Anxiety and stress reactions

C. increased heart beat

D. digestive spasm

Answer: B



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41. Which of the following has influenced the climate of earth

A. increasing concentration of atmospheric oxygen

B. Decreasing amount of atmospheric oxygen

C. increasing amount of atmospheric carbon dioxide

D. decreasing amount of atmospheric carbon dioxide.

Answer: C



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42. Greenhouse gases are

A. Absorbers of long -wave radiations from earth

B. transparent to both solar radiations and long-wave radiations from earth

C. Absorbers of solar radiations for warming the atmosphere of earth

D. Transparent to emission from earth for passage into outer space.

Answer: A



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43. Earth is protected from UV rays by

A. Ozone layer

B. nitrogen

C. oxygen

D. carbon dioxides

Answer: A



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44. Ozone layer occurs in

A. Ionosphere

B. Stratosphere

C. Oxygen

D. carbon dioxides

Answer: B



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45. Global warming will causes

A. Rise in level of oceans

B. Decreases in glaciers

C. reduction in ice caps

D. all the above

Answer: D



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46. Etching of marble, limestone, jewellery , etc. is caused by pollutant

A. CO_2

B. CO

C. SO_2

D. CH_4

Answer: C



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47. Cyclone collectors and electrostatic precipitators are meant for controlling

- A. Sewage pollution
- B. Air pollution
- C. Pesticide pollution
- D. Natural pollution

Answer: B



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48. Photochemical smog was first observed in

A. Los angeless

B. Tokyo

C. New york

D. Sydney

Answer: A



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49. Classical smog was first observed in

A. Tokyo

B. New york

C. Sydney

D. London

Answer: D



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50. Acid rain is due to

A. Water pollution

B. Air pollution

C. Automobile pollution

D. Pesticide pollution

Answer: B



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51. Non-biodegradable pollutants are extremely harmful because they

A. Undergo biomagnification

B. Remain in position for long

C. Do not get recycled

D. Both B and C

Answer: A



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52. Primary pollutants is the one, which

A. Enters environment directly

B. Is formed naturally

C. Is byproducts of reactions between two or more pollutants components

D. Is anthropogenic .

Answer: A



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53. A primary air pollutants is

A. CH_4

B. H_2S

C. CO

D. All the above

Answer: D



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54. A pollutants that causes irritation in eyes, throat and nose

A. CO

B. SO_2

C. CH_4

D. Chlorofluorocarbons.

Answer: B



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55. Pulmonary oedema is caused by

- A. Sulphur oxides
- B. Carbon oxides
- C. Nitrogen oxides
- D. Hydrocarbons

Answer: C



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56. In thermal inversion.

- A. Warm ground air gets overlapped by cool air
- B. Cool ground air gets overlapped by warm air
- C. Ground temperature becomes high in winter
- D. Ground temperature becomes low in summer.

Answer: B



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57. After thermal inversion, pollutants pile up in

- A. Hanging cool air

B. Hanging warm air

C. At the boundary of cool and warm airs

D. Soil

Answer: A



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58. In India, 50 % of all sickness and 30 % of all deaths occur due to polluted and contaminated

A. Soil

B. Air

C. water

D. noise

Answer: C



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59. Detergents are water pollutants because they contains

A. Suphates

B. Nitrates

C. Carbonates

D. Phosphates

Answer: D



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60. Eutrophication of water body occurs due to addition of

A. detergents

B. Fertilisers

C. Sewage

D. All of the above

Answer: D



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61. Air and water pollution are interconnected through

A. Smog

B. Acid rain

C. Aerosols

D. Radioactive pollution

Answer: B



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62. Aerosol is a suspension of

A. Liquid drops in air

B. Solid particles in air

C. Liquid or solid particles of less than $1.0 \mu\text{m}$

D. Liquid or solid particles of more than $1.0 \mu\text{m}$

Answer: C



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63. Ozone present in stratosphere comes from

A. Photosynthesis activity from earth

B. Reaction between nitrogen oxides and O_2

C. Photochemical interactions of oxygen molecules

D. Microbial decay on earth.

Answer: C



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64. In pollution, the term 'synergism' is used for

- A. Biomagnification of nondegradable pollutants
- B. Dangerous effect when two pollutants are present together.
- C. Decreasing effect to a degradable pollutants
- D. formation of more potent secondary pollutants from primary pollutants.

Answer: D



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65. Oil slick causes mass scale death of fish due to

- A. Clogging of gills
- B. Non-availability of oxygen in water
- C. Non-availability of food
- D. Disruption of food chain.

Answer: A



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66. Ozone hole is widest over

A. Equator

B. North pole

C. North temperature area

D. Antarctica.

Answer: D



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67. Two components of automobile exhausts, which can interact to produce secondary pollutants are

- A. Carbon monoxide and nitrogen oxides
- B. Nitrogen oxides and hydrocarbons
- C. Carbon dioxides and sulphur dioxide
- D. Sulphur and nitrogen oxides.

Answer: B



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68. SPM causes

- A. Respiratory diseases
- B. Bone deformities
- C. Skin diseases
- D. All the above

Answer: A



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69. Corrosion of statues and monuments occurs due to

A. Photochemical smog

B. Carbon monoxides

C. Acid rain

D. Methane

Answer: C



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70. Combustion of coal forms

A. Sulphur oxides

B. Nitrogen oxides

C. Carbon oxides

D. All the above

Answer: D



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71. Where was the painful bone disease itai-itai reported first?

A. Britain

B. India

C. Japan

D. USA

Answer: C



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72. Which one of the following is not a green houses gas ?

A. CO_2

B. CH_4

C. O_2

D. CFCs.

Answer: C



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73. UV radiations in the stratosphere are absorbed by

- A. Oxygen
- B. ozone
- C. sulphur dioxide
- D. Argon.

Answer: B



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74. Montreal protocol was signed in

A. 1978

B. 1987

C. 1991

D. 1993

Answer: B



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75. Earth summit 1992 was held at

A. Rio-de-janeiro

B. Stockholm

C. New york

D. Geneva.

Answer: A



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76. World environment Day is

A. 8 sep

B. 4 august

C. 6 February.

D. 5 june

Answer: D



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77. World environment day coincides with commemoration of

A. Montreal protocol

B. Vienna convention

C. First united nations conferences on human environment

D. Helsinki declaration

Answer: C



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78. Part of ozone is destroyed over poles during

A. polar spring

B. winter

C. summer

D. period of snow fall.

Answer: A



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79. Ozone present in stratosphere filters out

A. UV-A

B. UV-B

C. UV-C

D. Both B and C

Answer: D



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80. Ozone hole over antarctica was first detected
by

A. Molina and rowland

B. Farmanet al

C. Augus

D. molina and molina

Answer: B



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81. The ozone hole over Antarctica develops each year between:

- (a) Late august-early october
- (b) March-April
- (c) October-november
- (d) January -february

A. late august-early october

B. march-April

C. October-november

D. January -february

Answer: A



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82. ODS means

A. Ozone developing substances

B. Ozone depleting substances

C. Ozone data source

D. Office data secrecy.

Answer: B



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83. CFC s split up in stratosphere to release chlorine by the action of

A. UV-A

B. UV-B

C. UV-C

D. All the above

Answer: C



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84. The reaction in which the same chemical reacts again and again with the substrate is

(a) catalytic

(b) enzymatic

(c) chainamictic

(d) both a and b

A. catalytic

B. enzymatic

C. chainamictic

D. both A and B

Answer: C



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85. Ozone depletion shall causes higher incidence of

A. skin cancers

B. cataract

C. decreased immunity

D. all the above

Answer: D



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86. Montreal protocol was connected with :

- A. Phasing out ODS
- B. Reduction in CFCs
- C. Replacing CFCs with chlorine and bromine
- D. All the above

Answer: B



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87. Kyoto conference is connected with

- A. Limiting production of CO_2
- B. Developing alternatives to ODS
- C. Both A and B
- D. Reduction in use of energy.

Answer: C



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88. In the absence of greenhouse gases, the temperature of earth's surface will fall to

A. (a) $0^{\circ} C$

B. (b) $-5^{\circ} C$

C. (c) $-10^{\circ} C$

D. (d) $-20^{\circ} C$

Answer: D



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89. Surface of earth is kept warm by

(a) Solar radiations

(b) Geothermal energy

(c) Green houses flux

(d) Absorption of infrared radiations by green house gases

A. Solar radiations

B. Geothermal energy

C. Green houses flux

D. Absorption of infra red radiations by green house gases

Answer: C



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90. Carbon dioxides fertilisation effect is

A. Warming effect of CO_2

B. Photosynthetic enhancement of elevated
 CO_2 level

C. Both summer and temperature rainfall at
higher latitudes

D. Poleward shifting of temprature zone .

Answer: B



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91. Blue baby syndrome is caused due to excess :

(a) CO

(b) fluorine

(c) Nitrate

(d) Mercury

A. CO

B. fluorine

C. Nitrate

D. Mercury

Answer: C



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92. At do below 4 mg/l, water at normal temperature is

- (a) heavily polluted
- (b) moderately polluted
- (c) little polluted
- (d) nearly pure

A. heavily polluted

B. moderately polluted

C. little polluted

D. nearly pure.

Answer: A



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93. Major aerosol pollutant present in the jet plane emission is

A. sulphur dioxide

B. carbon monoxide

C. methane

D. fluorocarbon.

Answer: D



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94. Disease aggravated by pollution is

(a) Scurvy

(b) Rheumatism

(c) Haemophilia

(d) Bronchitis

A. Scurvy

B. Rheumatism

C. Haemophillia

D. Bronchitis.

Answer: D



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95. Atmosphere of big/metropolitan cities is polluted most by

(a) Automobile exhausts

(b) Pesticide residue

(c) Household waste

(d) Radioactive fall -out

A. Automobile exhausts

B. Pesticide residue

C. Household waste

D. Radio-active fall -out.

Answer: A



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96. Chief air pollutant which is likely to deplete ozone layer is

(a) sulphur dioxide

(b) carbon dioxide

(c) carbon monoxides

(d) nitrogen oxides and fluorocarbons

A. sulphur dioxide

B. carbon dioxide

C. carbon monoxides

D. nitrogen oxides and fluorocarbons

Answer: D



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97. Which one is not a pollutant normally ?

- A. Hydrocarbons
- B. carbon dioxide
- C. carbon monoxides
- D. sulphur dioxide

Answer: B



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98. Gas released during bhopal tragedy was

- (a) methyl isocyanate
- (b) potassium isothiocyanate
- (c) sodium isothiocyanate
- (d) ethyl isothiocyanate

A. methyl isocyanate

B. potassium isothiocyanate

C. sodium isothiocyanate

D. ethyl isothiocyanate

Answer: A



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99. Minamata disease is due to pollution of -

A. organic water into drinking water

B. oil spill in water

C. industrial waste mercury/methyl mercury
into fishing water

D. arsenic into the atmosphere.

Answer: C



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100. Cyclone collectors and electrostatic precipitators are meant for controlling

A. Radioactive pollution

B. Air pollution

C. Noise pollution

D. Water pollution

Answer: B



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101. Ultra-violet light causes

- A. Formation of pyrimidines dimers
- B. Sticky metaphases
- C. Photodynamic action
- D. Destruction of hydrogen bonds between complementary DNA strands.

Answer: D



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102. Sulphur dioxide affects

- A. Cell wall

B. Plasmodesmata

C. All membrane system

D. Nucleus.

Answer: C



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103. The release of phosphates and nitrates in water bodies (i.e., in rivers and lakes) leads to

A. Increased growth of decomposers

B. Reduced algal growth

C. Increased algal growth

D. Nutrient enrichment/eutrophication .

Answer: D



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104. Air pollutant photochemical oxidants include

(a) nitrous oxide, nitric acid and nitric oxide

(b) oxygen, chlorine and nitric acid

(c) ozone, peroxyacetyl nitrate and aldehydes

(d) carbon monoxide and sulphur dioxide

A. nitrous oxide, nitric acid and nitric oxide

B. oxygen, chlorine and nitric acid

C. ozone, peroxyacetylene nitrate and aldehydes

D. carbon monoxide and sulphur dioxide.

Answer: C



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105. UV rays prove lethal due to inactivation of:

(a) Proteins, nucleic acids and pigments

(b) minerals, air and water

(c) carbohydrates, fats and vitamins

(d) water, carbon dioxide and oxygen

A. Proteins, nucleic acids and pigments

B. minerals, air and water

C. carbohydrates, fats and vitamins

D. water, carbon dioxide and oxygen.

Answer: A



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106. Carbon monoxide is a pollutant because

- A. inactivates nerves
- B. inhibits glycolysis
- C. combines with oxygen
- D. combines with haemoglobin.

Answer: D



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107. Air pollutants that produce photochemical oxidants include

- A. (a) CO_2 , CO and SO_2

B. (b) nitrous oxide, nitric oxide and nitric acid

C. (c) oxygen , chlorine and nitric acid

D. (d) ozone, chlorine and sulphur dioxide.

Answer: B



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108. Acid rains are produced by

A. Excess NO_2 and SO_2 from burning fossils

fuels

B. excess production of NH_3 by industry and coal gas

C. Excess releases of carbon monoxide by incomplete combustion

D. Excess formation of CO_2 by combustion and animal respiration .

Answer: A



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109. Spraying of DDT produces pollution of

A. Air

B. Air and water

C. Air and soil

D. Air, water and soil.

Answer: D



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110. Most common and commercial water pollutant is

A. detergents

B. pesticides

C. industrial wastes

D. ammonia.

Answer: C



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111. The CO_2 content by volume, in the atmospheric air is about

A. $3.6E-5$

B. 0.00036

C. 0.0036

D. 0.036

Answer: B



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112. Burning of fossil fuels is the main source of which of the following pollutants?

A. Nitrogen oxide

B. nitric acid

C. nitrous oxide

D. sulphur dioxide

Answer: D



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113. Modes of controlling pollution in large cities includes:

A. cleanliness and less use of insecticides

B. proper disposal of organic wastes, sewage and industrial effluents

C. broader roads and shifting of factories

D. All the above

Answer: D



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114. Domestic waste constitutes

A. Nonbiodegradable pollution

B. Biodegradable pollution

C. Effluents

D. Air pollution

Answer: B



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115. Ozone layer of upper atmosphere is being destroyed by:

- A. Chlorofluorocarbon
- B. SO_2
- C. photochemical oxidants/ O_2 and CO_2
- D. smog.

Answer: A



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116. SO_2 pollution is indicated by

- A. Deschampsia (grasses)
- B. Sphagnum (mosses)
- C. Usnea (lichens)
- D. Cucubita (climbers)

Answer: C



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117. Increased asthmatic attacks in certain seasons are related to

- A. Inhalation of seasonal pollen
- B. eating of seasonal vegetables
- C. low temperature
- D. wet and dry environment

Answer: A



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118. Ozone depletion in stratosphere shall result in:

- A. forest fires
- B. increased incidence of skin cancer
- C. global warming
- D. None of the above

Answer: B



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119. Which one of the following dissolves more rapidly in blood haemoglobin than oxygen ?

A. Ozone

B. Nitrous oxide

C. Sulphur dioxide

D. Carbon monoxide

Answer: D



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120. Which of the following combines with haemoglobin in blood?

- (a) Carbon dioxide
- (b) carbon monoxide
- (c) oxygen
- (d) methane

- A. Carbon dioxide
- B. carbon monoxide
- C. oxygen
- D. methane

Answer: B



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121. *DDT* is

- (a) green house gas
- (b) degradable pollutant
- (c) non-degradable pollutant
- (d) None of the above

A. green house gas

B. degradable pollutant

C. nondegradable pollutant

D. None of the above

Answer: C



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122. Ultraviolet radiations from sunlight cause a reaction which produces

- A. Fluorides
- B. Carbon monoxide
- C. sulphur dioxide
- D. ozone.

Answer: D



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123. The noise pollution is measured in:

A. hertz

B. fathoms

C. nanometers

D. decibels

Answer: D



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124. The most hazardous metal pollutant of automobile exhaust is

A. mercury

B. cadmium

C. lead

D. copper.

Answer: C



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125. Taj Mahal is being damaged by

- A. Flood in Yammuna
- B. Temperature mediated spoilage of marble
- C. air pollutants from mathura refinery
- D. All of the above

Answer: C



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126. which is not a pollutant from exhaust of motor vehicle ?

- A. Hydrocarbons gas

B. Fly ash

C. SO_2

D. CO.

Answer: B



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127. Lead is

(a) Air pollutants

(b) Soil pollutants

(c) Radioactive pollutants

(d) Noise pollutants

- A. Air pollutants
- B. Soil pollutants
- C. Radioactive pollutants
- D. Noise pollutants

Answer: B



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128. Which will not cause atmospheric pollution ?

A. SO_2

B. CO_2

C. CO

D. H_2 .

Answer: D



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129. Which of the following causes water pollution?

A. smoke/fly ash

B. Automobile exhausts

C. Aeroplanes

D. 2,4-D and pesticides.

Answer: D



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130. Pollution is controlled by

- (a) Banning atomic blasts
- (b) Use of electrically operated automobiles
- (c) Sewage treatment
- (d) All of the above

A. Banning atomic blasts

B. Use of electrically operated automobiles

C. Sewage treatment

D. All of the above

Answer: D



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131. Air pollution is not caused by

(a) Pollen grains

(b) Hydroelectric power

(c) Industries

(d) Automobiles

- A. Pollen grains
- B. Hydroelectric power
- C. Industries
- D. Automobiles

Answer: B



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132. Carbon monoxide is harmful to human beings as it

- A. Carcinogenic

B. Antagonistic to CO_2

C. With higher affinity for haemoglobin as compared to oxygen

D. Destructive to O_3

Answer: C



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133. Highest DDT deposition shall occur

A. Phytoplankton

B. Sea gull/birds

C. Crab

D. Eel

Answer: B



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134. Gas being produced by paddy fields and involved in global warming is

A. Chlorine

B. Methane

C. CO_2

D. H_2S

Answer: B



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135. Green-house effect is warming due to

A. Infra-red rays reaching earth

B. Moisture layer in atmosphere

C. Increases in temperature due to increases in
carbon dioxide concentration of atmosphere

D. Ozone layer of atmosphere.

Answer: C



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136. Green house effect is

- A. Increased growth of green algae
- B. Global warming
- C. Cultivation of vegetables in houses
- D. Development of terrace gardens.

Answer: B



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137. Which of the following is a set of green house gases ?

A. CO_2 , CFC , CH_4 and N_2O

B. CO_2 , O_2 , N_2 , NO_2 and NH_3

C. CH_4 , N_2 , CO_2 and NH_3

D. CFC , CO_2 , NH_3 and N_2

Answer: A



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138. Which of the following is not a green house gas?

A. Chlorofluorocarbon

B. Methane

C. Carbon dioxides

D. Hydrogen / H_2 / $\frac{\emptyset}{N} H_3$ / SO_2 / C_2H_4 / O_3 / O_2

Answer: D



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139. Concentration of green houses gases is increasing due to

- A. Deforestation
- B. Increased use of refrigerators
- C. increased combustion of coal and petroleum
- D. All the above

Answer: D



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140. Which gas contributes most to green house effect ?

A. CFC

B. Freon

C. CO_2

D. CH_4

Answer: C



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141. Which gas of the atmosphere holds up ultraviolet rays

A. O_2

B. O_3

C. N_2

D. CO_2

Answer: B



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142. Checking of reradiating heat by atmospheric dust O_3 , CO_2 and water vapours is

- A. Ozone layer effect
- B. Solar effect
- C. Radioactive effect
- D. Green house effect.

Answer: D



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143. Liberation of H_2S /foul smell in water of tanks, ponds, etc is due to

- A. Anaerobiosis
- B. Aerobiosis
- C. Psammophytes
- D. Biological magnification

Answer: A



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144. Ultraviolet radiations from sunlight cause a reaction which produces



Answer: A



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145. Which important green house gas other than methane is being produced from the agricultural fields ?

- A. Nitrous oxide,
- B. Ammonia
- C. Sulphur dioxide
- D. Arsenic

Answer: A



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146. Greenhouse effect is due to

A. CO_2

B. CH_4 , SO_2 and NO_2

C. Combination of many gases

D. Gases which absorb infra-red rays reflected from earth.

Answer: D



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147. Concentration of green houses gases is increasing due to

A. Increasing CO_2 concentration

B. increasing SO_2 concentration

C. Increasing concentration of
chlorofluorocarbons

D. Hole in ozone layer.

Answer: A



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148. Peak concentration of ozone occurs in the atmosphere above a height of

A. 10 km

B. 15 km

C. 20 km

D. 30 km

Answer: C



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149. Greenhouse effect is due to

A. O_3 and depletion of CO_2

B. O_3 and CO_2

C. CO_2 and depletion of O_3

D. Green plants.

Answer: B



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150. The green house gas is:

A. H_2

B. CO

C. CO_2

D. N_2 .

Answer: C



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151. The reason for green-house effect is

A. Higher CO_2 concentration causing global warming

B. Absorption of infra-red rays by gases and dust particles

C. Both A and B

D. Rarefaction of CO_2

Answer: C



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152. Disease caused by eating fish found in water contaminated with industrial waste having mercury is

A. Minamata disease

B. Bright's disease

C. Hashimoto's diseases

D. Osteosclerosis.

Answer: A



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153. Drawback of DDT as pesticide is

A. It becomes ineffective after some time

B. It is less effective than others

C. It is not easily/rapidly degraded in nature

D. its high cost.

Answer: C



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154. Sound becomes hazardous noise pollution at level

- A. Above 30 dB
- B. Above 80 dB
- C. Above 100 dB
- D. Above 120 dB

Answer: B



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155. Fishes die in water bodies polluted by sewage due to :

- A. Pathogens
- B. Clogging of gills by silt
- C. Reduction in oxygen
- D. Four smell.

Answer: C



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156. By how much will the potential of half cell Cu^{+2} / Cu change if the solution is diluted to 100 times at 298 K ?

A. O_3

B. SO_2

C. NO_2

D. CO.

Answer: B



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157. Drained sewage has B.O.D.

- A. More than that of water
- B. Less than that of water
- C. equal to that of water
- D. None of the above

Answer: A



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158. B.O.D. is connected with

A. Organic matter

B. Microbes

C. Microbes and organic matter

D. None of the above

Answer: C



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159. UV radiations bring about

A. skin cancers

B. Mouth cancer

C. Lung cancer

D. Liver cancer

Answer: A



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160. Taj Mahal is threatened due to the effect of

A. chlorine

B. sulphur dioxide

C. hydrogen

D. oxygen

Answer: B



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161. Which one is the most toxic ?

A. Carbon

B. CO

C. CO_2

D. SO_2

Answer: D



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162. BOD is

- A. Biological oxygen deficit
- B. Biosphere oxygen demand
- C. Biological oxygen demand
- D. None of the above

Answer: C



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163. Pollution can bring about change in

A. Biogeochemical cycling

B. Abiotic environment

C. Biotic environment

D. None of the above

Answer: C



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164. Mention the major cause of air pollution in metro cities. Write any three ways by which it can be reduced.

A. Fossil fuel

B. Acid rain

C. Heat dispersion

D. None of the above

Answer: A



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165. World environment day is

A. 28th Feb.

B. 5 th june

C. 7th Aug.

D. 10th April

Answer: B



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166. "Heat islands" are produced due to:

A. Water pollution

B. Air pollution

C. Lands pollution

D. All the above

Answer: B



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167. Biodegradable pollutants is

A. Plastic

B. Asbestos

C. Sewage

D. Mercury

Answer: C



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168. Water pollution is due to

A. Sulphur dioxide

B. Carbon dioxide

C. oxygen

D. Industrial discharges.

Answer: D



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169. Which one is found in higher concentration in the atmosphere ?

A. Ozone

B. Nitrogen oxides

C. Carbon dioxide, nitrogen and oxygen

D. All the above

Answer: C



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170. Pollution is rising due to

A. Rains

B. Research institutes

C. Population explosion

D. Automobiles and industries.

Answer: D



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171. Pollution can be checked through

- A. Reducing discharge of waste
- B. increasing industrial development
- C. Throwing wastes in open spaces
- D. All the above

Answer: A



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172. Eutrophication causes reduction in

A. Dissolved carbon dioxide

B. Dissolved oxygen

C. Dissolved nitrate

D. All the above

Answer: B



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173. Continuous sewage flow into a stream would lead to

A. Eutrophication

B. Algal bloom

C. Depletion of oxygen

D. Increase in temperature .

Answer: C



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174. Atmospheric carbon monoxide concentration becomes harmful at

A. 0.5 , 2mm Hg

B. 0.4 , 7mm Hg

C. 0.3 ,5mm Hg

D. 0.1, 0.7 mm Hg

Answer: D



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175. The two great industrial tragedies namely, MIC and Chernobyl tragedies respectively occurred where and at which time?

A. Bhopal 1984, Ukraine 1990

B. Bhopal 1984,Ukraine 1988

C. Bhopal 1984, Ukraine 1986

D. Bhopal 1986, Russia 1988

Answer: C



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176. Which country has the greatest contribution for the hole formation in ozone layer?

A. U.S.A

B. Russia

C. Germany

D. Japan

Answer: A



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177. Chlorofluorocarbon releases a chemical harmful to ozone:

A. Fluorine

B. Chlorine

C. Nitrogen peroxide

D. Sulphure dioxide

Answer: B



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178. Measurement of rate of oxygen utilisation by a unit volume of water over a period of time is to measure.:

- A. Fermentation
- B. Biogas generation
- C. Biosynthetic pathway
- D. Biological oxygen demand

Answer: D



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179. Increasing skin cancer and high mutation rate are the result of

- A. Acid rain
- B. Ozone depletion
- C. CO pollution
- D. CO_2 pollution

Answer: B



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180. The sudden mass killing of fishes is likely to be seen in a :

- A. Eutrophic lake
- B. Mesotrophic lake
- C. Oligotrophic lake
- D. Oxaltrophic lake .

Answer: A



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181. Which pollution causes jaundice ?

A. Water

B. Air

C. Land

D. Thermal.

Answer: A



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182. Radioactive Sr-90 can enter and accumulate in human body through

- A. Breathing in contaminate air
- B. Drinking water
- C. Soil
- D. Food chain

Answer: D



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183. World ozone day is celebrated on

A. January, 30

B. September, 16

C. April, 21

D. December , 25

Answer: B



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184. Aerosols having carbon and fluorine compounds are chiefly released by

- A. Refineries
- B. Automobiles
- C. Industries
- D. Jets.

Answer: D



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185. Oxides of sulphur and nitrogen are important pollutants of :

A. Water

B. air

C. Soil

D. All of the above

Answer: B



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186. Air pollution affects:

A. Leaves

B. roots

C. Stem

D. Flowers.

Answer: A



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187. Which pollutant causes leaf curling?

A. CO

B. H_2S

C. O_3

D. SO_2

Answer: D



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188. Water pollution causes

A. Increased photosynthesis

B. increased deoxygenation and turbidity

C. decreased turbidity

D. increased oxygenation .

Answer: B



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189. Natural sink of stratospheric ozone layer is :

A. Sulphuric dioxide

B. Sulphur fluxes of oceans

C. freons

D. HCFCs.

Answer: C



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190. The major source of methane that causes global warming is

- A. Rice fields
- B. Sugarcane plantation
- C. Wheat fields
- D. Fruit orchards.

Answer: A



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191. Ozone hole is maximum over

A. Europe

B. Antractica

C. India

D. Africa

Answer: B



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192. In coming years, skin related disorders will be more common due to

- A. Excessive use of detergents
- B. water pollution
- C. Air pollution
- D. Depletion of ozone layer.

Answer: D



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193. Phosphate pollution is mainly caused by

- A. Weathering of phosphate rocks only
- B. Agricultural fertilizers
- C. phosphates rocks and sewage
- D. sewage and agricultural fertilizers.

Answer: D



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194. Common indicator organism of water pollution is

- A. Escherichia coli

B. *Chloera vibrio*

C. *Salmonella typhi*

D. *Entamonella histolytica*.

Answer: A



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195. Which pigment protects plants from UV damage ?

A. Chlorophyll

B. Xanthophyll

C. Carotenoids

D. Phycocyanin.

Answer: C



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196. The main component of photochemical smog is:

A. O_3

B. PAN

C. PPN and PBN

D. both A and B

Answer: D



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197. Indiscriminate use of fertilisers causes

- A. Air pollution
- B. water pollution
- C. Land pollution
- D. All of the above

Answer: B



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198. Most harmful type of environmental pollutants are

- A. Human organic wastes
- B. Natural nutrients in excess
- C. Waste animal feed
- D. Nonbiodegradable chemicals.

Answer: D



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199. Cadmium pollution of water body produces a disease of humans called

- A. Anaemia
- B. Itai-Itai
- C. Minamata
- D. Pneumoconiosis.

Answer: B



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200. Which is not dangerous for life ?

- A. Nuclear blast
- B. Deforestation
- C. Ozone layer
- D. Biopollutants.

Answer: C



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201. Spraying of DDT produces pollution of

A. Air and water

B. Air and soil

C. Crops and air

D. Soil and water.

Answer: D



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202. Sewage water is purified by

A. Microorganisms

B. light

C. Fishes

D. Aquatic plants.

Answer: A



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203. SO_2 pollution causes

A. Plasmolysis

B. Destruction of cell wall

C. Destruction of golgi bodies

D. Destruction of chlorophyll.

Answer: D



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204. A sewage treatment process in which a part of decomposer bacteria present in the waste is recycled into the starting of the process is called as

- A. Cyclic treatment
- B. Activated sludge treatment
- C. Primary treatment
- D. Tertiary treatment.

Answer: B



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205. Carbon monoxide, emitted by automobiles prevents transport of oxygen in body due to

- A. Combining with oxygen to form carbon dioxide
- B. Destruction of haemoglobin
- C. Preventing reaction between oxygen and haemoglobin

D. forming stable compound with
haemoglobin.

Answer: D



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206. Warm ocean surge of Peru Current that recurs after 5-8 years so in East Pacific along South America is known as

A. El Nino

B. Aye Aye

C. Mangox

D. Gulf stream.

Answer: A



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207. Ozone hole' refers to

A. Hole in ozone layers

B. Reduction in thickness of ozones layers in
stratosphere

C. Reduction of thickness of ozone troposphere

D. Increases concentration of ozone.

Answer: B



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208. Photochemical smog is related to the pollution of :

A. Air

B. Water

C. Soil

D. Nostoc.

Answer: A



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209. Most important causative pollutant is

A. Plastic

B. Glass junk

C. Iron junk

D. Detergents.

Answer: D



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210. Among following pollutants which one has the most lasting effect ?

- A. Carbon monoxide
- B. Pesticides
- C. Sulphur dioxide
- D. Smoke from chimneys.

Answer: B



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211. Thermal pollution is more prevalent near

- A. Hot water springs
- B. Coal based power plants
- C. Termperate zones
- D. Tropical zones.

Answer: B



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212. Pollution indicator plants

- A. Are resistant to pollution
- B. Can purify the atmosphere
- C. Are very sensitive to pollutants
- D. Can indicate onset of rains.

Answer: C



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213. The most hazardous metal pollutant of automobile exhaust is

A. mercury

B. Lead

C. Cadmium

D. copper.

Answer: B



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214. Photochemical smog always contains

A. Ozone

B. Methane

C. Carbon monoxides

D. Carbon dioxide

Answer: A



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215. The depletion of ozone layer is due to:

A. Oxides of nitrogen

B. Oxides of carbon

C. Oxides of sulphur

D. None of the above

Answer: A



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216. Use of lichens in case of pollution is

- A. Treatment of pollutants water
- B. Bioindicators of pollution
- C. Promote pollution
- D. Lichens have no relation with pollution

Answer: B



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217. A secondary pollutant is

A. CO

B. CO_2

C. PAN

D. Aerosol

Answer: C



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218. DDT is

- A. Biodegradable pollutants
- B. Nondegradable pollutants
- C. not a pollutants
- D. An antibiotic

Answer: A



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219. Most inhabitants of kolkata suffer from bronchitis. It is due to excess

- A. Adulteration of food
- B. Impurity of water
- C. polluted air
- D. Polluted soil

Answer: C



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220. Assertion : Ozone is destroyed by *CFCs* in the upper stratosphere.

Reason : Ozone holes increase the amount of *UV* radiation reaching the earth.

A. CFCs

B. PAN

C. CO_2

D. coal burning

Answer: A



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221. The protective ozone layer of stratosphere itself requires protection from indiscriminate use of :

- A. Fungicides, insecticides, bactericides and medicines
- B. Aerosols and high flying jets
- C. Atomic explosion and industrial wastes
- D. Balloons and turbo-prop aeroplanes.

Answer: B



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222. Environmental pollution affects

A. Biotic components

B. Plants only

C. Man only

D. Biotic and abiotic components of
environment.

Answer: D



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223. Green muffler scheme helps to reduce

A. Air

B. Soil

C. Noise

D. Water.

Answer: C



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224. Anxiety and stress are caused by

- A. Air pollution
- B. Noise pollution
- C. Water pollution
- D. Nuclear pollution

Answer: B



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225. Water pollution is due to

- A. Agricultural discharges
- B. Sewages and other wastes

C. Industrials effluents

D. All the above

Answer: D



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226. The pollutants released by jet aeroplanes in the atmosphere as chlorofluorocarbons are called:

A. Fog

B. Aerosol

C. Smog

D. Colloid.

Answer: B



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227. Carbon monoxide kills because it destroys.

A. Haemoglobin

B. Phytochrome

C. Cytochrome

D. both A and B

Answer: A



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228. Chlorofluorocarbons are air polluting agents which are produced by

- A. Acid Batteries
- B. Diesel trucks
- C. Aerosols
- D. Jet planes

Answer: C



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229. Water of often treated with chlorine to

- A. Increased oxygen content
- B. Kill germs
- C. Remove hardness
- D. Remove suspended particles.

Answer: B



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230. Which of the following may cause water blooms

A. Lemna

B. Hydrilla

C. Water hyacinth

D. Planktonic algae.

Answer: D



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231. DDT concentration recorded in human body has been

A. 0.3-0.7 ppm

B. 1.3-3.1 ppm

C. 13-31 ppm

D. 30-70 ppm .

Answer: C



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232. Lead (Pb) is mainly considered:

- A. Soil pollutants
- B. Water pollutant
- C. Air pollutants
- D. Noise pollutants

Answer: C



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233. Aerosols reduce primary productivity by :

A. Decreasing O_2 concentration

B. Competing with CO_2

C. Preventing N_2 fixation

D. Reduction photosynthesis .

Answer: D



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234. A dental disease characterised by mottling of teeth is due to the presence of certain chemical element in drinking water. Which of the following is that element?

A. mercury

B. fluorine

C. Boron

D. Chlorine

Answer: B



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235. Which one of the following is not pollutants.

A. CO_2

B. CO

C. SO_2

D. NO_2 .

Answer: A



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236. The concentration of DDT in the food chain, from lower to higher trophic levels:

A. Remain same

B. Decreases in glaciers

C. Increases

D. Unpredictable

Answer: C



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237. NEERI is

A. National Environmental engineering
research institute

B. National ecological and environmental
research institute

C. National ethological and ecological research
institute

D. National Eugenics and Ecological Research
institutes.

Answer: A



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238. A persons has impaired nervous system and signs of anaemia due to intake of a metal contaminated water. This metal is

A. mercury

B. Calcium

C. Maganese

D. Lead

Answer: D



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239. Methane gas producing field is

A. Wheat field

B. paddy field

C. Cotton field

D. groundnut field

Answer: B



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240. Eutrophication is caused by

A. Lack of algae in a lake

B. Abundant oxygen in ponds

C. Run-off fertilizers in lake

D. Excess nektons in lake.

Answer: C



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241. Ozone hole is caused by

A. Acetylene

B. Ethylene

C. Chlorofluorocarbons

D. Methane

Answer: C



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242. Biological Oxygen Demand (BOD) can be defined as,

A. Amount of oxygen consumed by microorganisms for decaying organic matter per unit volume of water.

B. Amount of CO_2 consumed by microorganisms per unit of sewage water

C. Amount of oxygen required by aquatic plants for survival

D. None of the above

Answer: A



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243. Treatment of polluted water is carried out with the help of

A. Lichens

B. Fungi

C. Ferns

D. Phytoplankton.

Answer: B



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244. Eutrophication is found in

- A. Agricultural land near thermal plant
- B. Saline soil
- C. Lake
- D. Mountain

Answer: C



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245. Automobile exhaust gas that causes major respiratory problem is

A. CO

B. CH_4

C. NO_2

D. Chlorine.

Answer: A



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246. Result of ozone hole is

- A. Green house effect
- B. Global warming
- C. Acid rain
- D. UV radiations reach the earth.

Answer: D



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247. A lake receiving nutrients would be

A. Oligotrophic

B. Eutrophic

C. Sink

D. Rich in fossils

Answer: B



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248. What is the intensity of sound in normal conversation?

A. 10 -20 dB

B. 30-60 dB

C. 70-90 dB

D. 120-150 dB

Answer: B



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249. Exposure to noise pollution causes

A. Increases heart beat

B. Constriction of blood vessels

C. Dilation of pupil

D. All the above

Answer: D



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250. Acid rain is caused by increase in the atmospheric concentration of

A. SO_2 and SO_3

B. SO_2 and CO

C. NH_3 and CO

D. SO_2 and NH_3

Answer: A



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251. Lichens are sensitive to

- A. Noise pollution
- B. Air pollution
- C. Water pollution
- D. Nuclear pollution

Answer: B



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252. Acid rain is secondary effect of

A. Sound pollution

B. Air pollution

C. soil pollution

D. Water pollution

Answer: C



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253. Greenhouse effect is due to

A. X-rays

B. UV rays

C. Green rays

D. Infra-red rays

Answer: D



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254. Polluted water do not contain

A. Stone Fly Larvae

B. Sewage fungus

C. Water Hyacinth

D. Cyanobacteria.

Answer: A



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255. DDT has been a major pollutant because it

A. Kills aquatic animals

B. Kills pests

C. Destroy many valuable species

D. Is nondegradable

Answer: D



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256. Pollutant which causes acid rain is

A. SO_2

B. CO_2

C. CO

D. Hydrocarbons

Answer: A



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257. Fertilisers added to fresh water will cause

- A. Death of plants
- B. Decreases in fish population
- C. Increases in aquatic animals
- D. Eutrophication.

Answer: D



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258. The minamata disease in Japan was caused through the pollution of water by

- A. Mercury and lead
- B. Mercury and Cadmium
- C. Lead and Tin
- D. Lead and Strontium.

Answer: B



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259. Pollution indicator plants

A. Agrobacterium

B. Lichen

C. Pteridium

D. Both A and B

Answer: B



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260. A water body has high BOD indicating that water is

A. Being contaminated with sewage

B. Being aerated

C. Receiving minerals

D. Atrophic.

Answer: A



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261. Eutrophication is a type of

A. Land pollution

B. Air pollution

C. Water pollution

D. Noise pollutants

Answer: C



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262. Heat that radiates back from greenhouse gases (green house flux) causes

A. Addition global warming

B. Thermal inversion

C. Eutrophication

D. Smog

Answer: A



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263. Lichens do not occur in area with

A. Pollution

B. humidity

C. low temperature

D. High temperature

Answer: A



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264. Pollutant that reduces O_2 -carrying capacity of blood is

A. SO_2

B. CO

C. CO_2

D. None of the above

Answer: B



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265. Affinity of CO for haemoglobin as compared to O_2 is

A. Two times

B. Twenty times

C. 100 times

D. 200 times

Answer: D



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266. Water pollution

- A. Increases turbidity and deoxygenation
- B. Decreases turbidity
- C. Increases oxygenation
- D. Increase photosynthesis.

Answer: A



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267. Nutrient enrichment of water body is

- A. Stratification
- B. Eutrophication
- C. Succession
- D. None of the above

Answer: B



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268. Which causes regional pollution

- A. Smog
- B. Acid rain

C. O_3 layer depletion

D. both A and B

Answer: D



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269. Acid rain will not affect

A. Lithosphere

B. Plants only

C. Ozone layer

D. Animals

Answer: C



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270. Biological magnification occurs in case of

A. Organochlorine insecticides

B. Organophosphate pesticides

C. Plants and animals in ecosystem with abundant resources

D. Photography.

Answer: A



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271. Hay fever is caused by

- A. Hepatitis
- B. Dague
- C. Allergy
- D. Helper T-cells

Answer: C



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272. Silicosis occurs to

- A. Acid rain
- B. ozone depletion
- C. Inhalation of aerosols
- D. Inhalation of SO_2

Answer: C



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273. Effect of pollution is first marked on

A. Microorganisms

B. Vegetation

C. Food crops

D. None of the above

Answer: B



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274. Minamata disease first occurred in

A. Japan

B. Russia

C. China

D. Korea.

Answer: A



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275. 5th June is celebrated as

A. World Forest Day

B. World red cross dary

C. World environment Day

D. World food day .

Answer: C



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276. Melanin protects from

A. X-rays

B. Infra-red rays

C. Visible rays

D. UV rays

Answer: D



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277. Which is most ionising

A. X-rays

B. γ -rays

C. β – rays

D. α -rays

Answer: D



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278. Methyl isocyanate of Bhopal gas tragedy was

- A. Carbamate
- B. Organophosphate
- C. Organochlorine
- D. None of the above

Answer: A



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279. World environment day is

A. 25th Dec

B. 20th September

C. 5th june

D. 9th july.

Answer: C



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280. SO_2 pollution causes

A. Mitochondria

B. Chloroplasts

C. Golgi bodies

D. Vacuoles

Answer: B



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281. Primary constituents of photochemical smog are

A. SO_2 and CO

B. CO_2 and NO_2

C. NO_2 and unsaturated hydrocarbons

D. Hydrocarbons and CFCs.

Answer: C



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282. Biochemical oxygen demand (BOD) is a measure of

- A. Industrial waste being poured in water body
- B. Extent of pollution with organic compounds
- C. CO combined with haemoglobin
- D. O_2 required by green plants during night .

Answer: B



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283. Drinking of mineral water very low level of pesticides (about 0,02 ppm) for long periods may :

- A. Cause cancer of intestine
- B. pesticide accumulation in the body
- C. cause leukaemia
- D. Produce immunity against mosquito.

Answer: B



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284. In almost all Indian metropolitan cities like Delhi major air pollutant is

A. SPM

B. SO_2

C. NO_2

D. CO and CO_2

Answer: A



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285. Photochemical smog consists of

- A. O_3 , SO_2 and hydrocarbons
- B. O_3 , PAN and NO_2
- C. SO_2 , CO_2 and hydrocarbons
- D. SO_2 , PAN and smoke

Answer: B



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286. Assertion : Inhabitants close to busy airports are likely to experience health hazards.

Reason : Sound levels of jet aeroplanes usually exceed 160 dB.

A. If both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: C



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287. Fluoride pollutions mainly affects : -

A. Brain

B. Hert

C. Teeth

D. Kidney.

Answer: C



[Watch Video Solution](#)

288. CFC is not recommended to be used in refrigerators because they:

- A. Increases temperature
- B. Cause allergic reaction
- C. Deplete ozone
- D. Both A and B

Answer: C



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289. Third generation pesticides are

A. Pheromones

B. Juvenile hormone analogues

C. Insect repellents

D. Pathogens

Answer: D



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290. Ozone hole cause

A. Global warming

B. Reduction in the rate of photosynthesis

C. More ultraviolet rays come to earth

D. All of the above

Answer: d



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291. Chlorofluorocarbon (CFC) is mainly responsible for:

A. Reduction in ozone

B. Ozone formation

C. Formation of leghaemoglobin

D. Enhance chlorophyll formation

Answer: A



Watch Video Solution

292. The concentration of DDT in the food chain, from lower to higher trophic levels:

- A. Increases
- B. Decreases
- C. Increases or decreases
- D. Remains constant

Answer: A



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293. Sound becomes hazardous noise pollution at level

A. 180 dB

B. 140 dB

C. 100 dB

D. 80 dB

Answer: D



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294. DDT is

A. Organophosphates

B. Organochlorine

C. Carbonate

D. Triazine

Answer: B



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295. Which pesticide is a herbicide

A. Malathion

B. Lindane

C. BHC

D. 2,4-D

Answer: D



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296. Allerthrin is

A. Fertilizer

B. Herbicide

C. Growth hormone

D. Insecticide.

Answer: D



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297. The soil pollutants that affects the food chain and food web by killing microorganisms and plants are:

A. Chemical fertilizers

B. Agricultural wastes

C. Pesticides

D. Pathogens

Answer: C



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298. NEERI is situated in

A. New delhi

B. Nagpur

C. Kolkata

D. Chennai.

Answer: B



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299. In acid rain , SO_2 accounts by .

A. 1

B. 0.3

C. 0.5

D. 0.7

Answer: D



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300. Maximum permissible limit of noise as per "Noise Pollution Rules 2000 of India" is:

A. 75 dB

B. 65 dB

C. 55dB

D. 45dB

Answer: A



[Watch Video Solution](#)

301. CFCs are responsible for

- A. Acid rain
- B. Ozone layer depletion
- C. Global warming
- D. Thermal inversion

Answer: B



[Watch Video Solution](#)

302. "Chernobyl" nuclear tragedy occurred on which date?

- A. April, 1986
- B. August 6, 1945
- C. August 9, 1945
- D. December 3, 1984

Answer: A



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303. Insecticides usually act upon

- A. Muscular system
- B. Digestive system
- C. Nervous system
- D. Circulatory system .

Answer: C



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304. Which one is correct regarding the action of pesticides and herbicides

- A. Herbicides kill plants by blocking PS II

B. Insecticides kill insects through impairment of nerve through sometimes respiratory arrest

C. Both A and B

D. None of the above

Answer: C



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305. A hyper metal accumulator is

A. *Daucos carota*

B. *Nicotiana tabacum*

C. *Arabidopsis*

D. *Thlaspi geosingensis*

Answer: C



Watch Video Solution

306. Rain water is called ACID RAIN when its pH :

A. 7

B. 6.5

C. 6

D. 5.6

Answer: D



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307. Bhopal gas tragedy occurred in:

A. 1982

B. 1984

C. 1986

D. 1988

Answer: B



Watch Video Solution

308. Bhopal gas tragedy of 1984 took place because methyl isocyanate reacted with

A. DDT

B. Ammonia

C. CO_2

D. Water.

Answer: D



Watch Video Solution

309. Lead concentration in blood is considered alarming if it is

A. $4 - 6\mu/100$ ml

B. $10\mu g/100$ ml

C. $20\mu g/100$ ml

D. $30\mu g/100$ ml

Answer: D



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310. The term 'biomagnification' refers to the

- A. Rapid growth to excessive intake of nutrients
- B. Increase in population size
- C. Decrease in population size
- D. increases in concentration of nondegradable pollutants as they pass through food chain.

Answer: D



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311. Nitrogen oxides produced from the emission of automobiles and power plants, are the source of the fine air borne particles which lead to

- A. Dry acid deposition
- B. Photochemical smog
- C. Wet acid deposition
- D. Industrial smog.

Answer: B



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312. A lake with an inflow of domestic sewage rich in organic waste may result in

- A. Drying up due to algal bloom
- B. Increased fish production due to higher nutrient availability
- C. Death of fish due to oxygen depletion
- D. Increased food web organisation.

Answer: C



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313. Assertion: Agricultural output increased several times after introduction of DDT.

Reason: DDT was the first insecticide used on a wide scale.

- A. If both are true with reason being correct explanation
- B. Both true but reason is not correct explanation
- C. assertion is true but reason is wrong
- D. Both are wrong

Answer: A



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314. [A] : Methane component of green house gases contributing to global warming is about 20 percent .

[R] : Introduction of multi-point fuel injection engines in automobiles has decreased methane content in the exhausts .

A. If both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: B



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315. [A] : Suspended particulate matter (SPM) is an important pollutant released by diesel vehicles .

[R] : Catalytic converters greatly reduce pollution caused by automobiles .

A. If both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: B



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316. [A] : Presently , the global atmosphere is warming up .

[R] : The depletion of stratospheric ozone layer has resulted in increase in ultraviolet radiations reaching the earth .

A. If both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: B



Watch Video Solution

317. Lead concentration in blood is considered alarming if it is

A. $4 - 6\mu/100$ ml

B. $10\mu g/100$ ml

C. $20\mu g/100$ ml

D. $30\mu g/100$ ml

Answer: D



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318. The Government of India has passed the environment (Protection) Act in the year

A. 1986

B. 1981

C. 1974

D. 1968

Answer: A



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319. Black lung disease is common in

A. Farmers

B. workers of petrochemical industry

C. coal miners

D. Refinery workers.

Answer: C



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320. CO_2 , CH_4 , N_2O and CFCs are called green house gases because they absorb and emit

- A. Ultraviolet radiations
- B. Long wave infra-red radiations
- C. visible light radiations
- D. X-ray radiations

Answer: B



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321. Which of the following are correctly matched?

I. Arsenic poisoning - Black foot disease

II. Secondary effluent treatment - Biological process

III. Pyrolysis - Solid soil waste disposal

IV. Tubifex - water pollution indicator

V. Biomagnification - Degradable pollutants

A. 1,2,3,5

B. 1,3,4,5

C. 2,3,4,5

D. 1,2,3,4

Answer: D



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322. Greenhouse effect is the cumulative result of the influences of certain gases. Identify the gas which is not involved in this influence:

- A. Methane
- B. Carbon dioxide
- C. Chlorofluorocarbons
- D. Nitrogen

Answer: D



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323. Match the columns and find out the correct combinations

	I		II
<i>a</i>	DDT	<i>i</i>	CO, CO ₂
<i>b</i>	PAN	<i>ii</i>	Smog
<i>c</i>	Acid rain	<i>iii</i>	Biological magnification
<i>d</i>	Global warming	<i>iv</i>	SO ₂

A. a-iv,b-iii,c-ii,d-i

B. a-I,b-iii,c-ii,d-iv

C. a-ii,b-iii,c-iv,d-i

D. a-iii,b-ii,c-iv,d-i

Answer: D



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324. Which one of the following is mismatched ?

A. Fossil fuel burning -Release of CO_2

B. Nuclear power-Radiations wastes

C. Solar energy-Green house effect

D. Biomass burning -Release of CO_2

Answer: C



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325. Identify the correct matched pair.

- A. Basel convention -Biodiversity conservation
- B. Kyoto protocol-Climate change
- C. Montreal protocol -Global warming
- D. Ramsar convention -Ground water pollution.

Answer: B



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326. Which disinfectant cannot be used in drinking water?

A. Chlorine

B. Ozone

C. Chloramine

D. Phenyl

Answer: D



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327. Which one of the following statements pertaining to pollutants is correct?

A. DDT is nonbiodegradable pollutant

B. Excess fluoride in drinking water causes osteoporosis

C. Excess cadmium in drinking water may cause black foot disease

D. Methyl mercury in water may causes "itai itai" disease.

Answer: A



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328. Formation of non-functional methaemoglobin causes blue-baby syndrome. This is due to

- A. Excess of arsenic in drinking water
- B. Excess of nitrate in drinking water
- C. Deficiency of iron in food
- D. Increased methane content in atmosphere.

Answer: B



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329. A mutagen pollutant is:

A. Organosphosphates

B. Resins

C. Hydrocarbons

D. Nitrogen oxides.

Answer: C



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330. Excess atmospheric CO_2 increases greenhouse effect as it:

- A. Is opaque to infra-red rays
- B. is not opaque to infra-red rays
- C. Precipitates dust in the atmosphere
- D. Reduces atmospheric pressure.

Answer: A



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331. The limit of BOD prescribed by the Central Pollution Control Board for the discharge of industrial and municipal waste waters into natural surface waters is

A. It 3.0 ppm

B. It 10 ppm

C. It 30 ppm

D. It 100 ppm

Answer: C



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332. Montreal Protocol, which calls for appropriate action to protect the ozone layer from human activities, was passed in the year

A. 1985

B. 1986

C. 1987

D. 1988

Answer: C



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333. The "blue baby" syndrome results from

- A. Excess of TDS
- B. Excess of chlorides
- C. Excess of dissolved oxygen
- D. Methaemoglobin

Answer: D



Watch Video Solution

334. Photochemical smog does not contain

A. PAN

B. Ozone

C. Nitrogen dioxide

D. SO_2

Answer: D



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335. A nonbiodegradable pollutant is

A. Newspring

B. Green leaves

C. DDT

D. Cowdung.

Answer: C



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336. Assertion : Deforestation is one main factor contributing to global warming .

Reason : Besides CO_2 , two other gases, methane and CFCs are also included in GHGs.

A. If both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: B



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337. Assertion (A) UV - radiation causes photodissociation of enzyme into O_2 and O . Thus causing damage to the stratospheric ozone layer.
Reason (R) Ozone hole is resulting in global warming and climate change.

- A. If both are true with reason being correct explanation
- B. Both true but reason is not correct explanation
- C. assertion is true but reason is wrong
- D. Both are wrong

Answer: D



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338. Assertion (A) : The concentration of methane in the atmosphere has more than doubled in the last 250 years.

Reason (R): Wetlands and rice fields are the major sources of methane.

A. If both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: B



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339. Assertion : Organochlorine pesticides are organic compounds that have been chlorinated.

Reason : Fenitrothion is one of the organochlorine pesticides

A. If both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: C



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340. Which one of the following is an environment - related disorder with the correct main cause ?

A. Black lung disease is found mainly in workers of stone quarries and crushers.

B. Blue -baby disease is due to heavy use of nitrogenous fertilizers

C. Non-Hodgkin's lymphoma is found mainly in workers involved in manufacture of neem-based pesticides

D. Skin cancer occurs mainly in people exposed to benzene and methane.

Answer: B



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341. The Montreal Protocol refers to

- A. Substances that deplete ozone layer
- B. Persistent organic pollutants
- C. Global warming and climate change
- D. Biosafety of genetically modified organisms

Answer: A



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342. Match the columns

	I		II
<i>a</i>	Arsenic	1.	Minamata disease
<i>b</i>	Nitrate	2.	Itai-itai
<i>c</i>	Mercury	3.	Blue-baby syndrome
<i>d</i>	Cadmium	4.	Skeletal fluorosis
<i>e</i>	Fluoride	5.	Black foot disease

A. a-5, b-3,c-1,d-2,e-4

B. a-2,b-3,c-5,d-1,e-4

C. a-3,b-4,c-5,d-1,e-2

D. a-5,b-4,c-3,d-2,e-1

Answer: A



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343. Which of the following will not control particulate pollutants

A. Incinerator

B. Arrester

C. Scrubber

D. Filter

Answer: A



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344. Which of the following strategies is not a correct approach to reduce global warming?

A. Developing substitutes of chlorofluorocarbons

B. Increasing use of air conditioners, refrigerator units and production of plastic foams and propellants in aerosol spray cans

C. Minimising use of nitrogen fertilizers in agriculture for reducing nitrogen oxide emission

D. Increasing vegetation cover, particularly forest, for photosynthetic utilisation of CO_2

Answer: B



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345. Act formulated in 1986

A. The insecticide Act

B. The Environmental (protection) Act

C. The water (Prevention and control of
Pollution) Act

D. The Air(Prevention and control of
pollution) act

Answer: B



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346. High amount of Escherichia coli in water is an
indicator of

- A. Hardness of water
- B. Industrial pollution
- C. Sewage pollution
- D. Presence of chlorine in water.

Answer: C



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347. Find out incorrect statements in relation to pollution

- A. Plastic is nondegradable pollutant

- B. Water vapours, smoke fumes and dust mixture forms smog
- C. PAN affects photosynthesis
- D. Ozone layer forms protective shield to ionosphere.

Answer: D



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348. Eutrophication of water bodies leading to killing to fishes is mainly due to non-availability of

A. Non-availability of oxygen

B. Non-availability of light

C. Non-availability of food

D. Non-availability of essential minerals.

Answer: A



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349. Process by which insecticides like DDT reach man is

A. Bioaccumulation

B. biomagnification

C. Bioremediation

D. Eutrophication.

Answer: B



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350. Black-foot disease is caused by ground water contaminated with:

A. Nitrate

B. Fluoride

C. Arsenic

D. Sulphur

Answer: C



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351. Match the column

	<i>Column-I</i>		<i>Column-II</i>
<i>a</i>	Nitrous oxide	1	Secondary pollutant from car exhausts
<i>b</i>	Chlorofluorocarbons	2.	Combustion of fossil fuels
<i>c</i>	Methane	3	Denitrification
<i>d</i>	Ozone	4.	Refrigerators aerosols, sprays
<i>e</i>	Carbon dioxide	5.	Cattle, rice fields, toilets

A. a-3,b-4,c-5,d-1,e-2

B. a-5,b-1,c-3,d-4,e-2

C. a-1,b-3,c-4,d-5,e-2

D. a-2,b-4,c-5,d-1,e-3

Answer: A



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352. Which is used in air conditions and refrigerator and it is a source of Cl^- ?

A. Benzene

B. CH_4

C. Benzopyrene

D. Freon.

Answer: D



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353. This pollutant causes burning sensation of throat and eyes and also vomiting:

A. Hydrogen cyanides

B. Arsenic

C. Hydrogen sulphides

D. Sulphure

Answer: C



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354. Air pollution is not reduced by

A. Using precipitators

B. Resusing wastes

C. Cleaning air

D. all the above

Answer: D



Watch Video Solution

355. Gastrointestinal problems are caused by

- A. Acid rain
- B. Water pollutant
- C. Soil pollution
- D. Sound production

Answer: B



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356. Checking of reradiating heat by atmospheric dust O_3 , CO_2 and water vapours is

- A. Ozone layer effect
- B. Radioactive effect
- C. Green house effect
- D. Solar effect.

Answer: C



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357. Which one is employed for clearing oil spillage

- A. Escherichia coli
- B. Streptococcus
- C. Bacillus thuringiensis
- D. Pseudomonas.

Answer: D



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358. Ozone hole results in:

A. UV radiations reaching earth

B. Number of cataracts

C. Skin cancers

D. All the above

Answer: D



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359. Ultraviolet radiations from sunlight cause a reaction which produces

A. Ozone

B. SO_2

C. CO

D. Fluorides

Answer: A



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360. Which of the following metals causes harmful effects?

A. Lead

B. Cobalt

C. Uranium

D. All of the above

Answer: D



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361. Ozone is spread in the swimming pool because it:

A. Absorbs UV radiations

B. Acts as disinfectant

C. Easily available from O_2

D. All the above

Answer: B



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362. Anthracosis is caused by

A. Iron dust

B. coal dust

C. Cane fibre

D. Silica.

Answer: B



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363. In kyoto protocol, all nations agreed to reduce emission of green house gases by

A. 2008

B. 2010

C. 2012

D. 2018

Answer: C



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364. In 2002 AD, CFC concentration of atmosphere was

A. 261 ppt

B. 326 ppb

C. 1750 ppb

D. 368 ppm.

Answer: A



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365. Which is correct ascending arrangement of BOD of sewage (S) distillery effluent (DE). Paper mill effluent (PE) and sugar mill effluent (SE)

- A. SE
- B. PE<S<SE<DE
- C. S<DE<PE<SE
- D. SE<S<PE<DE

Answer: B



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366. In a coal-fired power plant, electrostatic precipitators are installed to control the emission of

A. NO_x

B. CO

C. SPM

D. SO_2

Answer: C



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367. Which is correct

- A. Both Azotobacter and Rhizobium fix atmospheric nitrogen in root nodules of plants
- B. Cyanobacteria, Anabaena and Nostoc are mobilizers of phosphates and plant nutrition in soil
- C. At present it is not possible to grow maize without chemical fertilizers
- D. Excessive use of chemical fertilizers may lead to eutrophication of nearby water bodies.

Answer: D and A



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368. Which is not a bioindicator of water pollution

- A. Blood worms
- B. Stone flies
- C. Sewage fungus
- D. Sludge worms.

Answer: B



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369. High value of BOD (Biochemical Oxygen Demand) indicates that

- A. Highly polluted water
- B. Less pollution in water
- C. Less sewage
- D. Less microorganisms.

Answer: A



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370. Acid rain occurs above the areas where :

- A. There is excess release of NH_3 and coal gas
- B. Factories are expelling SO_2 into air
- C. There is excess production of CO_2 due to excessive combustion and respiration
- D. There is excess production of gaseous hydrocarbons

Answer: B



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371. Which is incorrect

- A. Noise pollution does not have any residue
- B. Noise pollution creates nervous disorder
- C. Plants absorb noise of low frequency
- D. Loss of hearing is common disorder.

Answer: C



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372. Pollution caused by persistent pesticides is relatively more dangerous to which type of

organisms?

- A. Herbivores
- B. Produces
- C. First level carnivores
- D. Top carnivores.

Answer: D



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373. Which of the following is not properly matched?

- A. Formaldehyde -carcinogenic
- B. Sulphur dioxide- respiratory problems
- C. Nitrogen oxide-brown air
- D. Mean annual temperature- $25^{\circ}C$

Answer: D



Watch Video Solution

374. Gaseous pollutants can be controlled by:

- A. Adsorption
- B. Incineration

C. Purolysis

D. None of the above

Answer: A



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375. It is estimated that out of the total global warming the relative contribution of CO_2 , CH_4 CFCs and N_2O are found respectively as:

A. 20%,14%,60%,6%

B. 14%,6%,20%,60%

C. 60%,20%,14%,6%

D. 6%,14%,20%,60%

Answer: C



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376. Arrange the following options in ascending order of their BOD value.

I. Sample of highly polluted pond water.

II. Sample from unpolluted pond water.

III. Distilled water

A. b-c-a

B. c-b-a

C. c-a-b

D. a-c-b

Answer: B



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377. Which one causes degradation of RBC ?

A. Hydrocarbons

B. Sulphur compounds

C. Ammonia

D. Arsenic compound.

Answer: D



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378. Enzymatic filters are used for removing

A. Nitrogen pollutants

B. Chloride pollutants

C. Hydrocarbons

D. Lead

Answer: C



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379. Freon gas causing stratospheric O_3 depletion is mainly released from :

- A. Refrigerators
- B. Automobiles
- C. Thermal power plants
- D. Steel industry.

Answer: A



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380. Correct percentage of two green house gases is

A. N_2O – 6 % , CO_2 – 86 %

B. CH_4 – 20 % , N_2O – 18 %

C. CO_2 – 40 % , CFC – 30 %

D. CFC – 14 % , CH_4 – 20 %

Answer: D



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381. Eutrophication is excess growth of

- A. Bryophytes
- B. Algae and aquatic plants
- C. Gymnosperms
- D. Pteridophytes.

Answer: B



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382. Which one is non-biodegradable

A. DDT

B. Sewage

C. Livestock waste

D. Market garbage.

Answer: A



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383. Cause of decline in population of reptiles and birds is

A. Bioinsecticides

B. Biofertilizers

C. DDT

D. Both A and B

Answer: C



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384. Day time sound level in silent zone is

A. 20dB

B. 40dB

C. 50dB

D. 70dB

Answer: C



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385. In treatment of waste, biological treatment is

- A. Primary treatment
- B. Secondary treatment
- C. Tertiary treatment
- D. Reverse osmosis stage.

Answer: B



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386. Increase in atmospheric temperature due to CO_2 , is called

- A. Pasteur effect
- B. Blackman effect
- C. Emersion effect
- D. Green-house effect

Answer: D



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387. World Summit on Sustainable Development, 2002 was held in

- (a) Rio de Janeiro, Brazil
- (b) Johannesburg, South Africa
- (c) Dehradun, India
- (d) New York, U.S.A.

A. South Africa

B. Brazil

C. Argentina

D. Sweden.

Answer: A



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388. A lake near a village suffered heavy mortality of fishes within a few days. Which of the following statements could be the correct explanation for this ?

- (i) Lots of urea and phosphate fertilisers were used in the crops in the nearby fields.
- (ii) The croplands of the village were fertilised

fields rich in nitrate and phosphate.

(iii) The lake water turned green and stinky.

(iv) Phytoplankton populations in the lake declined initially thereby greatly reducing photosynthesis.

A. a,b

B. a,c

C. b,c

D. c,d

Answer: B



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389. According to the Central Pollution Control Board, Particles that are responsible for causing great harm to human health are of diameter

A. 1.0 or less

B. 1.5 or less

C. 2.5 or less

D. 5.2-2.5

Answer: C



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390. Which one of the following is a secondary pollutant?

A. Br

B. NO_2

C. HNO_3

D. Cl_2

Answer: C



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391. If global warming continues , the organism which may face more severe threat is .

A. Banana

B. Dolphin

C. Cow

D. Snow Leopard

Answer: D



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392. Which of the following is a greenhouse gas ?

A. Methane

B. CO

C. water vapour

D. Oxygen

Answer: A



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393. The first biocide used on a large scale was

- A. Boreaux mixture
- B. DDT
- C. Thurioside
- D. Benzene hexachloride.

Answer: B



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394. Green house effect is increasing due to

- A. High concentration of NO_2
- B. High concentration of SO_2

C. High concentration of CO_2

D. High concentration of CO

Answer: C



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395. Biomagnification of DDT in an aquatic food chain starting from water having a concentration of 0.003 ppb may go, in fish eating birds, upto:

A. 100 ppm

B. 50 ppm

C. 25 ppm

D. 2 ppm

Answer: C



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396. "Itai-Itai" ("ouch-ouch") disease is caused by the poisoning of:

A. Hg

B. Pb

C. As

D. Cd.

Answer: D



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397. The intensity levels of whispering noise is

A. 10-15 dB

B. 20-40 dB

C. 40-50dB

D. 50-55dB

Answer: B



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398. Match the columns and choose the correct combination

	I		II
<i>a</i>	CO ₂	1.	292 ppt
<i>b</i>	CH ₄	2.	316 ppb
<i>c</i>	N ₂ O	3.	368 ppm
<i>d</i>	CFC + HFC	4.	1750 ppb

A. a-3,b-4,c-2,d-1

B. a-1,b-4,c-2,d-3

C. a-4,b-3,c-2,d-1

D. a-2,b-3,c-4,d-1

Answer: A



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399. Which one of the following is not an air pollutant ?

- A. Phosphate
- B. Hydrocarbons
- C. Carbon monoxide
- D. All of the above

Answer: D



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400. Which one of the following is a most efficient device to eliminate particulate matters from the industrial emission ?

- A. Pyrolysis
- B. Cyclone separators
- C. Incineration
- D. Eletrcostatic precipitators

Answer: D



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401. Which of the following statements are correct

?

(i) Benzene hexachloride (BHC) is a non-biodegradable pollutant.

(ii) Anthropogenic air pollutants are natural in origin.

(iii) Carbon monoxide is a primary air pollutant.

(iv) Sulphur dioxide causes brown air effect during traffic congestion in cities.

A. a,b

B. a,c

C. b,c

D. c,d

Answer: B



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402. Which insecticide is more hazardous to human health?

A. Pyrethrum

B. DDT

C. Rotenone

D. Humulin.

Answer: B



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403. UNEP stands for

A. United nations Ecotype Programme

B. United nations ecolgocal programme

C. United Nations Educations Programme

D. United Nations Environment Programme.

Answer: D



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404. Pesticides are considered as hazardous because they

- A. Persist in environment
- B. Do not enter food chain
- C. Affect target organism only
- D. Do not kill natural enemy populations .

Answer: A



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405. Depletion of ozone is mainly due to

A. CO_2

B. CFC

C. SO_2

D. CH_4 .

Answer: B



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406. Which is correct about statements X and Y
statement X. DDT shows biological magnification
Statement Y : UV radiations causes ozone
depletion .

- A. X and Y both correct, Y is proper explanation of X
- B. X and Y both correct, Y is not proper explanation of X
- C. X is correct, Y is not correct
- D. X is not correct, Y is correct.

Answer: C



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407. What is true about statements X and Y
statement X. Deforestation causes global
warming.

Statement -Y: Deforestation increases level of
green house gas CO_2 in atmosphere.

A. X is correct, Y is wrong

B. X and Y both correct but Y is correct
explanation

C. X and Y both correct but Y is not correct explanation

D. X and Y both are wrong

Answer: C



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408. Steps taken by the Government of India to control air pollution include

A. Compulsory mixing of 20% ethyl alcohol in petrol and 20% biodiesel in diesel

B. Use of CNG as fuel by buses and trucks

C. compulsory PUC certification of petrol driven vehicles which test for CO and hydrocarbons

D. Permission to use only pure diesel with a maximum 500 ppm sulphure.

Answer: C



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409. Biochemical Oxygen Demand (BOD) in a river water

- A. Remains unchanged when algal bloom occurs
- B. Increases when sewage gets mixed up with river water
- C. Has no relationship with concentration of oxygen in water
- D. Gives a measure of salmonella in water.

Answer: B



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410. DDT residues are rapidly passed through food chain causing biomagnification because DDT is

- A. Water soluble
- B. Moderately toxic
- C. Liposoluble
- D. Nontoxic to aquatic animals

Answer: C



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411. Global agreement in specific control strategies to reduce the release of ozone depleting substances, was adopted by

- A. Vienna convention
- B. Rio de Janeiro conference
- C. Kyoto protocol
- D. Montreal protocol.

Answer: D



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412. Damage to Taj Mahal is being caused by :

- A. Acid rain
- B. Dust
- C. Global warming
- D. Smoke.

Answer: A



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413. BOD level in fresh water should not exceed beyond

A. 5 ppm

B. 10 ppm

C. 24 ppm

D. 50 ppm

Answer: A



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414. In human body, the chlorinated hydrocarbons keep on accumulating in

A. Bones

B. Brain

C. Fatty tissue

D. Skin.

Answer: C



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415. The purpose of biological treatment of waste water is to

A. Reduce sedimentation

B. Increases sedimentation

C. Reduce BOD

D. Increase BOD

Answer: C



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416. In which year Air (Prevention and control of Pollution) Act was amended to include noise as an air pollutant ?

A. Dust

B. Noise

C. Water

D. None of the above

Answer: B



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417. CO_2 content of atmosphere has increased in the last 150 years from

A. 200 ppm to 300 ppm

B. 350 ppm to 450 ppm

C. 280 ppm to 370 ppm

D. 120 ppm to 280 ppm

Answer: C



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418. In a polluted environment, the maximum pollutant will occur in:

- A. Primary producers
- B. Tertiary consumers
- C. Secondary consumers
- D. Primary consumers.

Answer: B



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419. Biomagnification is highest in

- A. Primary consumers
- B. Secondary consumer
- C. Producers
- D. Consumers.

Answer: B



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420. The BOD of an eutrophic lake will be:

A. lower

B. moderate

C. Higher

D. Same as any other lake.

Answer: C



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421. One greenhouse gas contributes 14% to total global warming and another contributes 6%. These are respectively identified as

- A. NO_2 and CO_2
- B. CFC and N_2O
- C. Methan and CO_2
- D. Methane and CFCs

Answer: B



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422. Increase in concentration of the toxicant at successive trophic levels is known as

- A. Algal bloom
- B. biomagnification
- C. Eutrophication
- D. Accelerated eutrophication

Answer: B



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423. The thickness of ozone in a column of air from the ground to the top of the atmosphere is measured in terms of:

A. Decibel units

B. Pascal units

C. Svedber units

D. Dobson units

Answer: D



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424. Biomagnification of DDT caused decline in Bird population by

- A. Bringing disturbance in calcium metabolism
- B. Thinning of egg shell
- C. Premature breaking of eggs
- D. All the above

Answer: D



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425. Ecological sanitation is a sustainable system for handling human excreta, using dry composting toilets. Such "Eco San" toilets are working in many areas of

- A. Assam and west bengal
- B. Kerala and Sri lanka
- C. Maharashtra and Andhra pradesh
- D. Karnataka and Sri lanka

Answer: D



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426. Appropriate measures to reduce overall greenhouse gas emissions are the commitments of the :

- A. Kyoto protocol
- B. Montreal protocol
- C. Environment Act
- D. Earth summit.

Answer: A



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427. When domestic sewage mixes with river water

- A. Small animals like rats will die after drinking river water
- B. The increased microbial activity releases micronutrients such as iron
- C. The increased microbial activity uses up dissolved oxygen
- D. The river water is still suitable for drinking as impurities are only about 0.1%

Answer: C





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428. The two gases making highest relative contribution to the greenhouse gases are

A. CH_4 and N_2O

B. CFCs and N_2O

C. CO_2 and NO_2

D. CO_2 and CH_4

Answer: D



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429. dB is a standard abbreviation used for the quantitative expression of

- A. A particular pollutants
- B. The dominant Bacillus in a culture
- C. A certain pesticide
- D. The density of bacteria in a medium.

Answer: A



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430. Which pollutant causes the following effects?

1. Causes dryness to throat
2. Causes damage to neuron
3. Causes headache, blurred vision

A. Hydrocarbons

B. Hydrogen sulphide

C. Hydrogen flouride

D. Hydrogen cyanide.

Answer: D



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431. Which one of the following is called as 'indicator species' for polluted waters:

- A. Tubifex
- B. Phytoplankton
- C. Zooplankton
- D. Prawn.

Answer: A



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432. Most toxic product of vehicle pollution is:

A. Pb

B. CO_2

C. CO

D. NO_2 .

Answer: A



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433. the most famous pesticide of the world is

A. 2,4-D

B. 2,4,5-T

C. DDT

D. PAN

Answer: C



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434. In which year Air (Prevention and control of Pollution) Act was amended to include noise as an air pollutant ?

A. 1972

B. 1981

C. 1987

D. 1990

Answer: C



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435. Calcium metabolism in birds gets disturbed due to the effect of

A. Mercury

B. Cadmium

C. DDT

D. Lead

Answer: C



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436. Match the items of column I and Column II and select the correct combination

<i>Column—I</i>		<i>Column—II</i>	
<i>a</i>	Electrostatic precipitator	<i>p</i>	Removes gases like SO ₂
<i>b</i>	Scrubber	<i>q</i>	Reduces automobile emission
<i>c</i>	Catalytic converter	<i>r</i>	Removes particulate matter

A. a-q,b-r,c-p

B. a-r,b-q,c-p

C. a-r,b-q,c-r

D. a-r,b-p,c-q

Answer: D



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437. At present the concentration of CO_2 in the atmosphere is about

A. 100ppm

B. 240ppm

C. 380 ppm

D. 520 ppm

Answer: C



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438. Eutrophication is often seen in

A. Oceans

B. Moutains

C. Deserts

D. Fresh water lakes

Answer: D



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439. Which is wrong about Bhopal tragedy

- A. Radioactive fallout engulfed Bhopal
- B. Methyl isocyanate gas leakage took place
- C. Thousands of human beings died
- D. IT took place in the night of december 2/3

1984

Answer: A



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440. Which one is correct

- A. Catalytic converter can precipitate particular matter of less than $2.5 \mu\text{m}$
- B. Histones are acidic and form core of DNA packing
- C. Template with $3' \rightarrow 5'$ polarity shows continuous DNA replication
- D. Lactobacillus is not present in dough used for idli preparation.

Answer: A



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441. Catalytic converter in vehicle is used for controlling

- A. Increases mileage
- B. Convert CO_2 to carbonate
- C. Increase efficiency of lead petrol
- D. Convert CO to CO_2

Answer: D



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442. Assertion: Amount of biodegradable organic matter present in water is measured by BOD of water

Reason: During biodegradation of organic compounds. Oxygen is released

A. If both are true with reason being correct explanation

B. Both are true but reason is not correct explanation

C. assertion is true but reason is wrong

D. both are wrong

Answer: C



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443. Assertion: Algal blooms occurs in nutrient poor water.

Reason: Algal blooms make water unfit for human consumption but cause enormous growth of fish.

A. If both are true with reason being correct

explanation

B. Both are true but reason is not correct

explanation

C. assertion is true but reason is wrong

D. both are wrong

Answer: D



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444. In an area where DDT had been used extensively the population of birds declined significantly because

A. Birds stopped laying eggs

B. Earthworms disappeared

C. Cobras started feeding on birds

D. Many bird eggs did not hatch.

Answer: D



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445. Which is wrong

A. Most forests have been lost in tropical areas

B. Greenhouse effect is natural phenomenon

C. Ozone in upper part of atmosphere is harmful to animals

D. Eutrophication is natural phenomenon in fresh water bodies.

Answer: C



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446. For clean environment , which one is not essential

A. Producer

B. Polluter

C. Consumer

D. Decomposer

Answer: B



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447. Which greenhouse gas contributes 20% of global warming

A. Methane

B. N_2O

C. CFCs

D. CO_2

Answer: A



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448. If a water body is contaminated with a toxicant, its biomagnification will be more marked in

A. Plankton

B. Small fish

C. Birds

D. Water

Answer: C



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449. In domestic sewage, suspended solids, colloidal and dissolved materials constitute

A. 0.1

B. 0.056

C. 0.027

D. 0.001

Answer: D



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450. Consider the following statements with respect to pollution.

A. To control air pollution problems, by the end of 2002 all the buses of Delhi were converted to run on unrelated petrol

B. Electrostatic precipitator can remove over 99% particulated matter present in the exhaust from a thermal power plant.

C. It is possible to estimate the amount of organic matter in sewage water by measuring BOD.

Of the above statements:

A. b and c correct

B. a alone correct

C. b alone correct

D. c alone correct

Answer: A



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451. Which of the following strategy is not a correct approach to reduce global warming ?

A. Cutting down use of fossil fuel

B. Reducing deforestation

C. Improving efficiency of energy use

D. Cutting trees and increasing growth of
human population

Answer: C



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452. Find the correct order of biomagnification of DDT in an aquatic food chain:

A. Water -0.003 ppm, zooplankton -0.5 ppm,
small fish -0.04 ppm, large fish -2 ppm , fish
eating birds -25 ppm

B. Water-0.003 ppm , zooplankton-0.04 ppm,
zooplankton -0.5 ppm , large fish -2ppm, fish
eating birds -25 ppm

C. Water-0.003 ppm, small fish-0.04 ppm,
zooplankton-0.5 ppm, large fish-2 ppm, fish
eating birds -25 ppm .

D. Water-0.003 ppm, fish eating birds-25 ppm,
zooplankton -0.5 ppm , small fish -0.04 ppm,

large fish -2.5 ppm

Answer: B



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453. A nonbiodegradable pollutant is

- A. Sulphur dioxide
- B. Oxides of nitrogen
- C. Lead vapour
- D. Sewage.

Answer: C



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454. CO_2 is called a green house gas because

- A. It emits light
- B. It traps infra red radiations
- C. It traps ultraviolet radiations
- D. It is involved in photosynthesis.

Answer: B



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455. Cattle ranches are known to causes acute green house effect. This is due to

- A. Methanogenic bacteria in rumen
- B. Machanised milking practices
- C. Decomposition of organic remains in faces
- D. Decomposition of left over fodder.

Answer: A



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456. Select the correct statements about particulate matter

- A. $10\mu\text{m}$ size creates severe lung damage
- B. more than $2.5\mu\text{m}$ gets trapped in lungs and causes problems
- C. Less than $2.5\mu\text{m}$ penetrates deep into lungs
- D. None of the above

Answer: C



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457. Slash and burn agriculture is the other name of :

A. Organic farming

B. Step forming

C. Crop rotation

D. Jhum cultivation

Answer: D



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458. Exposure of UV radiations causes

- A. Formation of thymine dimers
- B. Addition of base pairs
- C. Deletion of base pairs
- D. Methylation of bases.

Answer: A



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459. The highest amount of CO_2 is evolved from

A. Ocean

B. Rivers

C. Ponds

D. Forests

Answer: A



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460. O_3 in ozone layer is formed by action of

A. IR radiations

B. Blue radiations

C. UV radiations

D. Other radiations

Answer: C



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461. Maximum damage to forest cover is caused by

A. Edaphic factors

B. Climatic factors

C. Biotic factors

D. Physiographic factors.

Answer: C



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462. Which of the following cause photochemical smog?

A. O_2

B. CO_2

C. CH_4

D. NO_2

Answer: A



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463. Kyoto Protocol was endorsed at

A. CopP-4

B. CoP-3

C. CoP-5

D. CoP-5

Answer: B



[Watch Video Solution](#)

464. The Air Prevention and Control of Pollution Act came into force in: (A) 1985 (B) 1990 (C) 1975 (D) 1981

A. 1990

B. 1975

C. 1981

D. 1985

Answer: C



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465. Global warming can be controlled by

- A. Increasing deforestation, reducing efficiency of energy use
- B. Reducing deforestation, cutting down use of fossil fuel
- C. Reducing deforestation, increasing use of fossil fuel
- D. Increasing deforestation, slowing down the growth of human population .

Answer: B



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466. Which is not correct about harmful effect of SPM of $2.5 \mu\text{m}$ or less

- A. It can directly enter our circulatory system
- B. It can causes inflammation and damage to the lungs
- C. It can be inhaled into lungs
- D. It can cause respiratory problems.

Answer: A



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467. The second commitment period for Kyoto Protocol was decided at

A. Bali

B. Doha

C. Cancun

D. Durban

Answer: D



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468. Climate of world is threatened by

- A. Increasing amount of atmospheric CO_2
- B. Decreasing amount of atmospheric CO_2
- C. Increasing concentration of atmospheric O_2
- D. Decreasing amount of atmospheric O_2

Answer: A



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469. Biochemical oxygen demand measures:

- A. Industrial pollution
- B. Air pollution
- C. Dissolved oxygen required for decomposers
- D. Pollution capacity of effluents

Answer: C



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470. Knock Knee' syndrome occurs due to the pollution of :

- A. Heavy metals

B. Fluorides

C. Nitrates

D. Phosphates

Answer: B



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471. Which is indicator of industrial pollution

A. Biston belularia

B. Chamaeleon

C. Lichen

D. Bengal tiger.

Answer: C



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472. Gases that are commonly known as green house gases:-

A. CO_2 and CH_4

B. N_2O and CFCs

C. ozone

D. All the above

Answer: D



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473. Which is matched for composite waste

- A. Waste clothing, waste plastics such as toys
- B. Waste clothing, rocks
- C. Toys, green waste
- D. Toys, bottles, paper.

Answer: A



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474. Deforestation means

- A. Growing plants and trees in an area where there is no forest
- B. Growing plants and trees in an area where the forest is removed
- C. Growing plants and trees in a pond
- D. Removal of plants and trees.

Answer: D



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475. A large quantity of urban sewage is drained to a nearby river. Which among the given conditions would happen after mixing of sewage into the river

(i) BOD of receiving water body increases

(ii) DO of receiving water body decreases

(iii) It will not cause mortality among fishes and other aquatic creatures.

(iv) It will lead to nutrient enrichment of receiving water body

A. I,ii and iii

B. I,ii, and iv

C. ii and iii

D. iii and iv

Answer: B



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476. It has been recommended that storage of nuclear waste after sufficient pretreatment should be done in suitably shielded containers buried within rocks about

A. 50 m deep

B. 100 m deep below ocean bed

C. 75 m deep

D. 500 m deep

Answer: D



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477. Catalytic converters, which are fitted into automobiles for reducing the emission of poisonous gases possess which of the following metals as catalyst ?

A. cadmium and Rhodium

B. Platinum, palladium and rhodium

C. Lead and Cadmium

D. copper and cadmium

Answer: B



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478. Which one is not an advantage of CNG over diesel

A. Burns more efficiently

B. Easy to lay down pipelines for delivery

C. Cannot be siphoned off by thieves

D. Cannot be adulterated

Answer: D



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479. One greenhouse gas contributes 14% to total global warming and another contributes 6%.

These are respectively identified as

A. N_2O and CO_2

B. N_2O and CFCs

C. CFCs and methane

D. N_2O and methane

Answer: D



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480. A citizen group called ' Friends of Arcata Marsh' (FOAM) belong to

A. Germany

B. U.S.A.

C. Canada

D. U.K.

Answer: B



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481. The prime contaminants in lakes eutrophied by sewage and agriculture wastes are:

A. Sulphates and phosphates

B. Nitrates and sulphates

C. Nitrates and phosphates

D. Nitrates and carbonates.

Answer: C



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482. Water Hyacinth is termed as 'terror of Bengal' it causes death of fish because it.

A. Covers water surface and inhabits sunlight to pass through

B. Drains oxygen from water that causes oxygen deficiency

C. Absorbs nutrients from water that causes malnutrition

D. Releases CO_2 in huge amount which is lethal to fish.

Answer: B



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483. With the rise of water temperature, dissolved oxygen:

- A. Remains unchanged when algal bloom occurs
- B. Increases in amount
- C. Decreases in amount
- D. Is more available to aquatic organisms.

Answer: C



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484. Kyoto protocol' is a multinational international treaty for:

- A. Phasing out green house gas
- B. Controlling ozone destroying substances
- C. Managements of hazardous wastes
- D. Conservation of biodiversity.

Answer: A



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485. Main cause of eutrophication is:

- A. Fluctuation of temperature
- B. Unusual growth of aquatic vegetation

C. Enrichment of nutrients

D. Abundance of microorganisms

Answer: C



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486. If there was no carbon dioxide in the Earth's atmosphere so the temperature of Earth's surface would be :

A. Same as the present level

B. more than the present level

C. Less than the present level

D. Dependent on O_2 content of atmosphere.

Answer: C



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487. Afforestation is :

A. Restoring a forest

B. Plantation in barren land

C. Cultivation of under agriculture

D. Jhum cultivation

Answer: B



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488. One of the following is not a possible reason for use of CNG in automobiles:

- A. It can be adulterated
- B. It is cheaper than petrol
- C. It burns more efficiently
- D. It reduce pollution.

Answer: A



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489. Which of the following statements does not apply to eutrophication?

A. It is natural ageing of lake by nutrient enrichment of its water

B. In a young lake the water is cold and clear and supports less life

C. The nutrients such as sulphur and phosphorous encourage the growth of aquatic organisms in the lake

D. Pollutants released by man radically accelerated the ageing process of a lake

Answer: B



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490. A scrubber in the exhaust of a chemical industrial plant removes

A. Particulate matter of the size of 5.0 micrometer or above

B. Gases like ozone and methane

C. Particulate matter of the size of 2.5 micrometer or less

D. Gases like sulphur dioxide.

Answer: D



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491. Plants do not get benefits from

A. N_2 in air

B. O_2 in air

C. CO_2 in air

D. O_3 in air

Answer: D



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492. Photochemical smog formed in congested metropolitan cities mainly consists of

A. Ozone, peroxyacyl nitrate and NO_x

B. smokes peroxyacyl nitrate and SO_2

C. hydrocarbons , SO_2 and CO_2

D. Hydrocarbons, ozone and SO_x

Answer: A



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493. Assertion : Secondary air pollutants are formed by interacting among primary pollutants and are more toxic

Reason: DDT is secondary air pollutants

A. If both are true with reason being correct

explanation

B. Both true but reason is not correct

explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: C



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494. Assertion : BOD of river polluted by sewage is more than 20 ppm.

Reason: Polluted river contains excess of organic matter.

A. If both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. assertion is true but reason is wrong

D. Both are wrong

Answer: A



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495. Assertion : Presence of large amounts of nutrients in water body causes excessive growth of planktonic algae.

Reason : It is due to biomagnification.

- A. If both are true with reason being correct explanation
- B. Both true but reason is not correct explanation
- C. assertion is true but reason is wrong
- D. Both are wrong

Answer: C



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496. Match the columns and find the correct option

(a) Emphysema	(i) Increase in concentration of nonbiodegradable substances in food chains
(b) ADA deficiency	(ii) α -1 antitrypsin
(c) Eutrophication	(iii) Bone marrow transplantation
(d) Biomagnification	(iv) Nutrient enrichment of water body.

A. a-iii,b-ii,c-iv,d-i

B. a-ii,b-iii,c-iv,d-i

C. a-ii,b-iv,c-I,d-iii

D. a-iv,b-ii,c-iii,d-i

Answer: B



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497. Match the following and find the correct option

(a)	Mercury	(i)	Plumbism
(b)	Lead	(ii)	Minimata
(c)	Cadmium	(iii)	Itai-itai
(d)	Hydrocarbon	(iv)	Cancer

A. a-ii,b-I,c-iii,d-iv

B. a-I,b-ii,c-iii,d-iv

C. a-ii,b-iii,c-I,d-iv

D. a-ii,b-I,c-iv,d-iii

Answer: A



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498. Match the columns and find the correct option

(a) Photochemical smog	(i) Itai-itai disease
(b) Arsenic pollution	(ii) Parkinson's disease
(c) Manganese pollution	(iii) Black foot disease
(d) Cadmium pollution	(iv) Burning of petrol and diesel with oxides of nitrogen

A. a-iv,b-ii,c-iii,d-i

B. a-iv,b-iii,c-ii,d-i

C. a-iv,b-iii,c-i,d-ii

D. a-iv,b-i,c-ii,d-iii

Answer: B



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499. Greenhouse effect is due to

- A. Accumulation of O_3 has depletion of O_2
- B. Accumulation of O_3 and CO_2
- C. Depletion of CO_2 and O_3
- D. Accumulation of green plants.

Answer: B



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500. Drawback of DDT as pesticide is

- A. It is less effective than other pesticides
- B. Organisms develop resistance to it
- C. Production cost is vary high
- D. It has long residual effect.

Answer: D



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501. Which of the following would most likely help to snow down the greenhouse effect?

- A. Promoting the use of private rather than public transport
- B. Redesigning land fill dumps to allow methane to be collected
- C. Ensuring that all excess dumps to allow methane to be collected
- D. Converting tropical forests into grazing land for cattle .

Answer: B



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502. Green house crops such as tomatoes and bell pepper produce higher yields. This is due to

- A. Tomatoes and bell pepper are not C_3 plants
- B. Due to diffused light in green house
- C. CO_2 is limiting factor to photosynthesis
- D. CO_2 enriched atmosphere leads to higher yeild

Answer: D



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503. The polluting strength sewage is usually characterized by its:

- A. BOD
- B. Ozone content
- C. Nitrogen content
- D. Eutrophication

Answer: A



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504. Biological control of agricultural pests, unlike chemical controls is

- A. Toxic
- B. Polluting
- C. Self perpetuating
- D. Very expensive

Answer: C



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505. Examples of secondary air pollutants is/are:

A. Smog

B. PAN

C. O_3

D. All the above

Answer: D



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506. Montreal Protocol was aimed to

A. UV rays

B. Ozone

C. CFC

D. Oxygen

Answer: C



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507. Match the following

(i) Mercury	(a) Low blood pressure, blindness
(ii) Lead	(b) Hyperkeratosis, liver cirrhosis
(iii) Arsenic	(c) Bone deformation, testicular dystrophy
(iv) Cadmium	(d) Abdominal pain, haemolysis
	(e) Anaemia, convulsions

A. i-e,ii-d,iii-c,iv-b

B. i-d,ii-e,iii-b,iv-c

C. i-c,ii-b,iii-d,iv-a

D. i-b,ii-c,iii-d,iv-e

Answer: B

508. Match and find the correct combination

(a) Eutrophication	(i) Rise in sea level
(b) Biomagnification	(ii) Water Hyacinth
(c) Terror of Bengal	(iii) Increase in quantity of pollutant at successive trophic levels
(d) Green house effect	(iv) Enrichment with nutrients.

- A. a-iv,b-iii,c-i,d-ii
- B. a-i,b-ii,c-iii,d-iv
- C. a-ii,b-iii,c-iv,d-i
- D. a-iv,b-iii,c-ii, d-i

Answer: D



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509. Match the columns and find correct option

(a) Zooplankton	(p) 0.003 ppm
(b) Small fishes	(q) 2.0 ppm
(c) Water	(r) 25.0 ppm
(d) Fish eating birds	(s) 0.04 ppm
(e) Big fishes	(t) 0.5 ppm

A. a-s,b-t,c-p,d-r,e-q

B. a-s,b-t,c-r,d-q,e-p

C. a-s,b-t,c-p,d-q,e-r

D. a-q,b-p,c-s,d-t,e-r

Answer: A



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510. Who proved that blends of polyblend (plastic waste) and bitumen, when used to lay roads, enhanced the bitumen's water repellent properties and helped to increase road life?

A. Amrita Devi

B. Ramdeo misra

C. Ramesh chander Dagar.

D. Ahmed khan

Answer: D



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511. Increase in concentration of the toxicant at successive trophic levels is known as

A. Biomagnification

B. Biodeterioration

C. Biotransformation

D. Biogeochemical cycling.

Answer: A



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512. Which of the following are most suitable indicators of SO_2 pollution in the environment?

A. Lichens

B. Conifers

C. Algae

D. Fungi

Answer: A



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513. Eutrophication of water bodies leading to killing to fishes is mainly due to non-availability of

- A. Food
- B. Light
- C. Essential minerals
- D. Oxygen

Answer: D



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514. Maximum permissible noise as per Noise pollution Rules 2000 is

A. 60 decibels

B. 70 decibels

C. 80 decibels

D. 100 decibels.

Answer: C



[Watch Video Solution](#)

515. The gases responsible for Green house effect are :

A. CO_2

B. CFC

C. N_2O

D. All the above

Answer: D



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516. During waste water treatment, trickling filter is used for :

- A. Primary treatments
- B. Secondary aerobic treatments
- C. Secondary anaerobic treatment
- D. Tertiary treatment

Answer: B



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517. Relationship between DO and BOD is that they:

- A. Are directly proportional
- B. Are inversely proportional
- C. Are not related
- D. Always remains equal to each other.

Answer: B



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518. Match the columns and find the correct option

(a) Photochemical smog	(i) Itai-itai disease
(b) Arsenic pollution	(ii) Parkinson's disease
(c) Manganese pollution	(iii) Black foot disease
(d) Cadmium pollution	(iv) Burning of petrol and diesel with oxides of nitrogen

- A. a-ii,b-i,c-iii,d-iv
- B. a-iv, b-iii, c-ii, d-i
- C. a-i,b-ii c-iii,d-iv
- D. a-iii,b-i c-ii,d-iv

Answer: A



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519. Water above the dissolved O_2 content may be considered uncontaminated

A. 0.8 mg/l

B. 0.009 mg/l

C. 8.0 mg/l

D. $8\mu\text{g/l}$

Answer: C



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520. "Grey Air" refers to

A. Incomplete smog formation

B. N_2O

C. CO

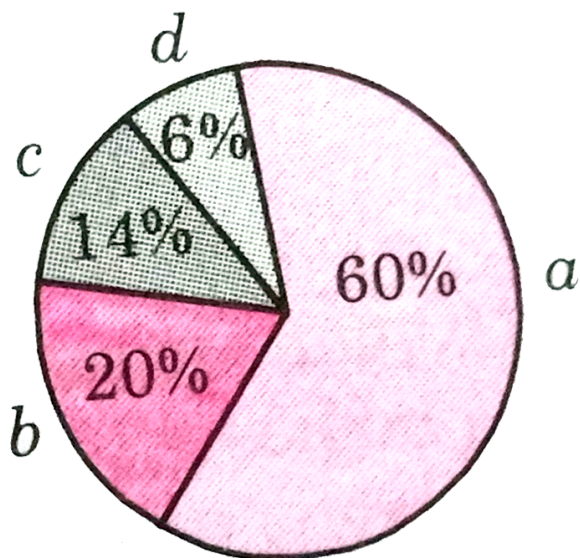
D. SO_2

Answer: A



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521. Relative contribution of various green house gases to total global warming is given in the diagrams. Identify the green house gases



A. $a - CO_2$, $b - CH_4$, $c - CFCs$, $d - N_2O$

B. $a - CO_2$, $b - CFCs$, $c - CH_4$, $d - N_2O$

C. $a - CFCs$, $b - CO_2$, $c - CH_4$, $d - N_2O$

D. $a - CFCs$, $b - CH_4$, $c - CO_2$, $d - N_2O$

Answer: A



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522. Snow blindness is caused by

- A. Ozone hole
- B. Nuclear winter
- C. Acid rain
- D. Green house effect.

Answer: A



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523. Match the columns and choose the correct options

I

II

(*p*) e-waste

(*i*) Waste clothing

(*q*) Biodegradable waste

(*ii*) Dirt

(*r*) Inert waste

(*iii*) Green waste

(*s*) Composite waste

(*iv*) Irreparable waste

A. p-I,q-ii,r-iv,s-iii

B. p-iv,q-iii,r-ii,s-i

C. p-iii,q-iv,r-I,s-ii

D. p-iv,q-iii,r-i,s-ii

Answer: B



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524. Which of the the following process does maximum destruction of ozone

A. OH system

B. N_2O system

C. $CFCl_2$ system

D. CF_2Cl_2 system

Answer: B



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525. Aerosols decrease primary productivity by

- A. Decreases O_2 concentration
- B. Preventing N_2 fixation
- C. Reducing photosynthesis
- D. None of the above.

Answer: C



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526. Black foot disease is due to ground water contamination of

A. Nitrates

B. Fluorides

C. Arsenic

D. Mercury.

Answer: C



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527. Noise is

- A. Loud sound
- B. Unwanted sound
- C. Constant sound
- D. Sound of high frequency.

Answer: B



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528. Identify the wrong statements with reference to UV rays

- A. UV-A is more harmful to animals than UV-B
- B. UV radiations falls in the range between 100-300 nm wavelength
- C. UV radiations is classified into three categories
- D. UV radiations kills microorganisms.

Answer: A



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529. Match and find the correct option

(a) BOD	(i) Supernatant as effluent	(p) Useful aerobic microbes
(b) Flocs	(ii) Measure of organic matter	(q) All settled solids
(c) Primary sludge	(iii) Masses of bacteria associated with fungi	(r) Methane, hydrogen sulphide, carbon dioxide
(d) Biogas	(iv) Anaerobic sludge digester	(s) Polluting water has more BOD

A. a-ii-s,b-iii-p,c-i-q,d-iv-r

B. a-ii-p,b-i-r,c-iv-q,d-iii-s

C. a-i-s,b-iii-q,c-iv-p,d-ii-r

D. a-iv-r,b-ii-s,c-iii-p,d-i-q

Answer: A



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530. Identify the correct matching combination

(a) Chernobyl	Accidental leakage	Radioactive waste
(b) El Nino effect	Global warming	Causes climatic changes
(c) Chlorofluorocarbons	Ozone degradation	Fluorine atoms released
(d) Snow blindness	UV-B radiation	Inflammation of cornea

A. a,c

B. a,d

C. a,b,d

D. b,d

Answer: C



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531. Which one is correct about atmosphere ozone

- A. it acts as protector
- B. it acts as destroyer
- C. both A and B
- D. It has no role in atmosphere.

Answer: C



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532. Which type of toxicity was experienced by survivors of Nagasaki and Hiroshima

A. Radioactive pollution

B. Cosmic

C. Ultraviolet

D. Infra-red rays

Answer: A



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533. "Chipko Movement" is connected with :

- A. Conservation of water resoruces
- B. Conservation of forests
- C. Conservation of tiger
- D. Conservation of biodiversity

Answer: B



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534. Ozone layer occurs in

A. Troposphere

B. Hydrosphere

C. Stratosphere

D. Lithosphere.

Answer: C



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535. Which one of the following combinations is wrong?

A. Ramsar convention -air pollution

B. Kyoto protocol-Climate change

C. Montreal protocol -ozone depletion

D. Rio convention-Sustainable development

Answer: A



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536. Match the columns and choose the right option

(i) Ramesh Chandra Dagar	(a) Conservation of forests
(ii) Ahmed Khan	(b) Organic farming
(iii) Amrita Devi	(c) Plastic waste recycling.

A. i-b,ii-c,iii-a

B. i-c,ii-a,iii-b

C. i-a,ii-b,iii-c

D. i-b,ii-a,iii-c

Answer: A



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537. One of the most polluted rivers in maharashtra is

A. Brahmputra

B. Ganga

C. Jamnuna

D. Panchaganga.

Answer: D



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538. A lake with an inflow of domestic sewage rich in organic waste may result in

A. Death of fish due to lack of oxygen

B. Drying of the river/lake very soon due to algal blooms

C. Increase population of aquatic food web organisms

D. An increased production of fish due to biodegradable nutrients.

Answer: A



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539. Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancers

A. Methane

B. Nitrous oxide

C. Ozone

D. ammonia.

Answer: C



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540. Joint Forest Management Concept was introduced in India during

A. 1990s

B. 1960 s

C. 1970s

D. 1980s

Answer: D



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541. Biochemical Oxygen Demand (BOD) may not be a good index for pollution for water bodies receiving effluents from

- A. Sugar industry
- B. Domestic sewage
- C. Dairy industry
- D. Petroleum industry

Answer: D



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542. One greenhouse gas contributes 14% to total global warming and another contributes 6%.

These are respectively identified as

A. N_2O and CO_2

B. CFCs and N_2O

C. Methan and CO_2

D. Methane and CFCs

Answer: B



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543. A large quantity of urban sewage is drained to a nearby river. Which among the given conditions would happen after mixing of sewage into the river

(i) BOD of receiving water body increases

(ii) DO of receiving water body decreases

(iii) It will not cause mortality among fishes and other aquatic creatures.

(iv) It will lead to nutrient enrichment of receiving water body

A. I,ii and iii

B. I,ii and iv

C. ii and iii only

D. iii and iv only

Answer: B



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544. Which one of the following statement is not valid for aerosols ?

A. They are harmful to human health

B. They alter rainfall and monsoon patterns

C. They cause increased agricultural activity

D. They have negative impact on agriculture land.

Answer: C



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Check your grasp

1. Water (prevention and control of pollution) Act was passed in the year

A. 1952

B. 1972

C. 1991

D. 1994

Answer: B



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2. When was the Ganga Action Plan started?

A. 1982

B. 1985

C. 1991

D. 1994

Answer: B



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3. Agricultural use of DDT was banned in India during

A. 1962

B. 1972

C. 1974

D. 1989

Answer: D



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4. Silent Spring' is

- A. A piece of literature
- B. A valley in Kerala
- C. A flower bedcked area in Uttar Kashi
- D. An unpolluted are ain Kashmir.

Answer: A



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5. Green muffer is planting of trees ans shrubs

A. On wastelands

B. Along roads

C. Along canals and other water bodies

D. On the slopes.

Answer: C



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6. MNP indicates

- A. Thermal pollution
- B. Atmospheric pollution
- C. Faecal pollution
- D. Industrial pollution

Answer: D



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7. Polonium -210 is pollutant emitted from

A. Laboratory radio-isotopes

B. Coolant water of reactors

C. Automobile exhausts

D. Thorium rich sands.

Answer: B



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8. Cheronobyl nuclear tragedy occurred in

A. 1978

B. 1982

C. 1985

D. 1986



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9. Sound limit in industry is

A. 75 dB

B. 55dB

C. 45dB

D. 30 dB

Answer: A



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10. 5th June is

- A. World environmental day
- B. World population day
- C. world hygiens day
- D. Malaria day

Answer: A



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11. Earth Summit at Rio de Janeiro was related to

A. Soil fertility

B. Survey of natural resources

C. Conservation of resources

D. Prevention of afforestation.



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12. The country which hosted the first world earth summit on the conservation of environment is

A. India

B. Brazil

C. Peru

D. Spain



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13. Halocarbons or halons are constituents of
except

- A. Aerosols
- B. Refrigerants
- C. Fire extinguishers
- D. Pesticide

Answer: b



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14. Ozone layer is present in

A. Troposphere

B. Stratosphere

C. Mesosphere

D. Thermosphere.



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15. Green house effect was discovered by

A. Fourier

B. Tyndall

C. Clements

D. Einstein

Answer: B



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16. Which is the most effective in warming atmosphere

A. CO_2

B. CFC

C. Methane

D. Nitrogen oxides.

Answer: d



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17. Major source of methane in India is :

A. Rice fields

B. Sugarcane plantation

C. Wheat fields

D. Fruit orchards



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18. Which of the following substance is/are identified due to their unique characteristic smell

A. H_2S

B. Dimethyl sulphide

C. Dimethyl mercury

D. Iron sulphide



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Brain teasers-X

1. Waldsterben is an effect of

A. Ozone

B. Nitrogen oxide and sulphur oxide

C. Acid rain

D. All the above

Answer: D



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2. Waldsterben is

A. Decline forests

B. Development of fog

C. Harm to sculptures, statues and buildings

D. All of the above

Answer: A



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3. In air pollution, Delhi ranks

- A. First most polluted
- B. second most polluted
- C. Third most polluted
- D. Fourth most polluted

Answer: B



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4. Annual number of deaths in Delhi believed to be due to air pollution is

A. 1000

B. 5000

C. 1500,000

D. 15000

Answer: D



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5. Traffic policeman in Tokyo

- A. Wears gas mask
- B. required daily oxygen treatment
- C. Suffers from black lung disease
- D. all the above

Answer: B



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6. Number of ozone depleters identified by Montreal Protocol (1987) was

A. 72

B. 18

C. 96

D. 40

Answer: C



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7. Number of ozone depleters identified by Viena convention for Protection of Ozone Layer (1992) is

A. 19

B. 17

C. 15

D. 13

Answer: A



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8. Ozone is spread in the swimming pool because it:

- A. Pale blue
- B. highly reactive
- C. with penetrating odour
- D. all the above

Answer: D



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9. A fire extinguisher contains H_2SO_4 and

- A. Nitrogen oxide
- B. Methyl bromide
- C. halone
- D. Chlorofluorocarbons.

Answer: C



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10. Ozone is spread in the swimming pool because it:

- A. Protector in troposphere
- B. pollutant in troposphere
- C. Green house gas
- D. Both B and C

Answer: D



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11. Ozone layer was discovered by

A. Coriolis

B. febry

C. Wiener

D. Diener

Answer: B



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12. Smoked foods are not favoured now because of the possible toxicity of

- A. Benzpyrene
- B. Nitrogen oxides
- C. Sulphure dioxide
- D. All the above

Answer: A



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13. Benzpyrene is ingredient of

A. Wood smoke and tobacco smoke

B. Automobile exhausts

C. Coal tar

D. All the above

Answer: D



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14. Carbon dioxide added by biomass burning is

A. 0.8

B. 0.6

C. 0.4

D. 0.25

Answer: C



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15. Agent Orange was named so because of

A. Orange colour

B. Orange stripe on packet

C. Production of orange cloud

D. Killing all greenery.

Answer: B



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16. Agent Orange consisted of

A. 2,4 -D

B. 2,4,5-T

C. Dioxin as contaminant

D. All the above

Answer: D



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17. Coal mining has been known, since

A. 1750 AD

B. 675 AD

C. Roman times

D. Mediaeval times.

Answer: C



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18. Mineral oil is

A. Mustard oil

B. Petroleum

C. Liquefied petroleum gas

D. Palm oil

Answer: B



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19. The earliest use of petroleum was in

A. Heating

B. Furnace

C. Medicine

D. Production of gas

Answer: C



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20. Petrol is known as gasoline in

A. U.S.A

B. U.K

C. Parts of India

D. All the above

Answer: A



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21. Gasohol was first used in

A. 1970 s

B. 1980S

C. 1940 S

D. 1800s

Answer: C



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22. Knocking in a fuel is

A. Tendency to spill

B. Explosion of unburnt fuel-air mixture

C. Late burning of fuel

D. Difficult ignition of fuel in combustion Chamber.

Answer: B



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23. _____ is an important anti knock compound added to petrol used in internal combustion engines .

A. Tetramethyl or tetraethyl lead

B. Dibromoethane

C. Both B and A

D. Octanes

Answer: C



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24. Antiknocking agent of unleaded petrol is

(a) Dibromoethane

(b) Methyl-ethyl ether

(c) Propane

(d) Methyl tertiary Butyl ether

A. Dibromomethane

B. Methyl-ethyl ether

C. Propane

D. Methyl tert. Butyl ether.

Answer: D



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25. Catalytic converter in vehicle is used for controlling

A. Thermal plants

B. chimneys

C. Brick kilns

D. Motor vehicles

Answer: D



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26. Catalytic converter brings about

A. Complete oxidation of hydrocarbons

B. Oxidation of carbon monoxide to carbon dioxide

C. Reduction of nitrogen oxide to nitrogen

D. All the above

Answer: D



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27. Smoke or dust dispersed in air is called

A. fog

B. haze

C. mist

D. smog

Answer: B



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28. Mist is fog with horizontal visibility of

A. 100 m

B. 200 m

C. 500 m

D. 1km

Answer: D



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29. Fog is formed by

A. Smoke

B. Condensation of water vapours

C. Condensation of water vapours over dust particles

D. Both A and C

Answer: C



Watch Video Solution

30. Fluoride content of water which causes fluorosis is

A. 6 ppb

B. 100 ppb

C. 1 ppm

D. 10 ppm

Answer: D



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31. The term 'greenhouse effect' was given by

A. Fourier

B. Tyndall

C. Arrhenius

D. Linnaeus.

Answer: C



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32. Biggest oil spill occurred in

- A. March 1989 off Alaska by Exxon Valdez
- B. 1968 off south America by World Glory
- C. October 1997 off Singapore
- D. February 1991 in Persian Gulf.

Answer: D



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33. The term 'acid rain' was given by

- A. Fourier
- B. Angus

C. Tyndall

D. Linnaeus.

Answer: B



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34. Polychlorinated biphenyls are chemicals useful
is

A. Fire-resistants

B. Fertilisers

C. Pesticides

D. Germicides

Answer: A



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35. Use of polychlorinated biphenyl is restricted because of their

- A. Extreme toxicity
- B. Persistent toxicity
- C. Biomagnification
- D. Both B and C

Answer: D



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36. Detergents often contain

- A. Bleach
- B. Fluorescers
- C. Perborates
- D. All the above

Answer: D



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37. Ecofriendly detergents do not contain

A. Phosphate and bleaches

B. Alcohols

C. Water softeners

D. Perborates.

Answer: A



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38. Environmental hum has a sound frequency of

A. 0.1 Hz

B. 1.0 Hz

C. 40 Hz

D. 100 Hz

Answer: C



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39. Elephants communicate with one another at a sound frequency of

A. 1.0 Hz

B. 15 Hz

C. 150 Hz

D. 0.1 Hz

Answer: A



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40. Pigeons are highly alert as they can detect a sound frequency of

A. 0.1 Hz

B. 1.0 Hz

C. 4 Hz

D. upto 10 Hz

Answer: A



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41. Range of human hearing is

A. 20-400 Hz

B. 100-1000 Hz

C. 20-15000 Hz

D. 1000-15000 Hz

Answer: C



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42. Hypersonics is connected with sound of

- A. More than 1 mach
- B. more than 5 machs
- C. less than 20 Hz
- D. more than 20000 Hz

Answer: B



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43. Sonic boom is a sudden

- A. Loud noise by passing train
- B. sound of overlying helicopter

C. vibrations by overflying supersonic jet

D. continuous sound by industrial and commercial areas.

Answer: C



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44. A supersonic jet produces sonic boom in a

A. Cone-like area behind the jet

B. 10-100 km area

C. both A and B

D. Area of 10 km all around it.

Answer: C



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45. Sudden rattling of doors and windows is due to

A. Earthquake

B. sonic boom

C. movements of crustal layers of earth

D. slipping of glaciers on the nearby mountain

Answer: B



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46. Planation of rows of trees along roads, sides ,
rails , residential complexes, hospitals and
instituties is known as

- A. Green muffler
- B. Shelter belt
- C. Wind break
- D. Both B and C

Answer: A



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47. Green muffler is specific for

- A. Reduction smog
- B. Sound insulation
- C. Preventing haze formation
- D. Reduction ground frost.

Answer: B



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48. The loudest noise is that of

- A. Jet at take off
- B. Rocket launch
- C. Humpback Whale
- D. Both A and B

Answer: C



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49. In sea, the call of Humpback Whale is audible upto a distance of

A. 20 km

B. 200 km

C. 400 km

D. 800 km

Answer: D



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50. The biggest cause of reactor mishap is

- A. Radioactive in coolant
- B. meltdown of reactor core
- C. crumbling of concrete covering
- D. sinking of ground

Answer: B



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51. The first reactor mishap occurred in

A. windscale

B. church rock

C. three-mile island

D. kyshym.

Answer: A



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52. Chernobyl is known for its

A. Reactor mishap

B. Acid rain

C. Water-logging

D. Salinisation of soil

Answer: A



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53. Maximum background radiation occurs in

A. Chennai beaches

B. mumbai beaches

C. kerela beaches

D. Andaman and nicobar islands

Answer: C



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54. Kerala beaches are radioactive due to

A. Uranium -238

B. Radon-222

C. Radium -224

D. Thorium -232

Answer: D



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55. Strontium - 90 can enter human body parts in place of

A. Phosphorus

B. potassium

C. Calcium

D. Sodium

Answer: C



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56. Sr-90 causes

- A. Bone and blood cancers
- B. Skin cancer
- C. Lung tumour
- D. All the above

Answer: A



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57. UV radiations causes

A. Damage to eye sight

B. Sunburn

C. Skin cancer

D. All the above

Answer: D



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58. Silence zone is created around

A. Residential area

B. hospital and educational institutes

C. commercial area

D. Industrial area

Answer: B



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59. Ambient noise level in residential area is

A. 75/70 dB

B. 65/55 dB

C. 55/45 dB

D. 50 /45dB

Answer: C



Watch Video Solution

60. Third pollution is

- A. Land or landscape pollution
- B. controlled tipping
- C. noise pollution
- D. UV pollution

Answer: A



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61. Sewage is broken down in

- A. Primary treatment
- B. Secondary treatment
- C. Tertiary treatment
- D. All of the above

Answer: B



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62. Sewage sludge is used as Tipping is a technique of

- A. manure
- B. biogas generator
- C. Both A and B
- D. Tipping

Answer: C



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63. Tipping is a technique of

- A. sewage disposal
- B. waste disposal
- C. smoke treatment
- D. effluent

Answer: B



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64. Composting is carried out from

A. Sewage sludge

B. Rubbish

C. Industrial wastes

D. Garbages and sewage sludge.

Answer: D



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65. Secondary sewage treatment is mainly a:

A. Primary treatements

B. Secondary treatment

C. Tertiary treatment

D. All of the above

Answer: B



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66. Photocatalysis of effluents is carried out with the help of

A. polymeric adsorbents

B. Titanium dioxide

C. Resins

D. UV radiations

Answer: B



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67. Photocatalysis is useful in breakdown of

A. Acids and alkalies

B. Chemicals containing heavy metals

C. Toxic chemicals

D. All the above

Answer: C



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68. Chlorination of treated waste water is required for

- A. Killing all microbes
- B. Removing suspended materials
- C. Complete breakdown of organic matter
- D. All the above

Answer: A



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69. Assertion : Excess nitrate in drinking water causes 'blue baby' syndrome.

Reason : The maximum limit of nitrate in drinking water is 50 ppb.

A. methaemoglobinaemia

B. Mottling of teeth

C. minamata disease

D. Itai-itai.

Answer: A



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70. Bag filters are used for removal of pollutants from

- A. Exhaust emissions
- B. Effluent water
- C. sewage water
- D. Both B and C

Answer: A



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71. Thermal plants have installed

- A. cyclone collector
- B. porous filters
- C. electrostatic precipitators
- D. adsorbents

Answer: C



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72. Unleaded petrol has been introduced in India with effect from

A. First january,1996

B. First april, 1995

C. first april,1996

D. First january,1997

Answer: B



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73. Low sulphur diesel has become available in India from

- A. First April 1996
- B. First april 1997
- C. first january 1997
- D. first january,1996

Answer: A



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74. Nitrogen oxides released in the stratosphere causes ozone depletion due to

- A. catalysing conversion of ozone to oxygen
- B. binding ozone
- C. reacting with ozone
- D. All the above

Answer: C



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75. Substitute of chlorofluorocarbon is

- A. Hydrofluorofluorocarbons
- B. Hydrochlorofluorocarbon
- C. Fluorocarbon
- D. Both A and B

Answer: D



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76. Classical smog is

- A. Dark brown smog
- B. yellow brown smog
- C. los Angeles smog
- D. Smog with secondary pollutants

Answer: A



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77. Sulphurous smog is

- A. Photochemicals smog
- B. oxidising smog

C. classical smog

D. los angeles smog.

Answer: C



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78. A smog that occurs due to low temperature and has reducing environment is

A. photochemical smog

B. los angeles smog

C. nonsulphurous smog

D. london smog.

Answer: D



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79. Smog that occurs mainly by automobile exhausts at high temperature over congested metropolitan cities due to still air is called

A. Photochemicals smog

B. Classical smog

C. london smog

D. Both B and C

Answer: A



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80. Examples of secondary air pollutants is/are:

A. Automobile exhausts

B. chimneys smog

C. photochemicals smog

D. Classical smog

Answer: C



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81. The term smog was coined by

A. Fourier

B. des voeux

C. schouw

D. ashbel.

Answer: B



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82. Green audit is

- A. estimation of crop yield and crop area
- B. estimation of forested area and pasture land
- C. checking of impact of an establishment over environment
- D. effect of environment over vegetation of an area.

Answer: C



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83. Run-off from fields is

- A. Point source pollution
- B. line source pollution
- C. area source pollution
- D. diffuse source pollution

Answer: D



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84. A glass dome covering an area of 3-5 acres with 4000 representatives of most ecosystems and eight human beings in order to prepare a prototype of space colony is

A. glass house

B. phytotron

C. Biosphere 1

D. Biosphere 2

Answer: D



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85. Worker Bees aiding queen to reproduce and converting other females into workers is an example of

A. social set up

B. altruism

C. parental care

D. peck order

Answer: B



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86. Certain millipedes and Silver Fish live in nest of Army Ant feeding on their refuse. The relationship is

- A. commensalism
- B. mutualism
- C. proto cooperation
- D. scavenging.

Answer: A



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87. Viceroy Butterfly resembles Monarch Butterfly.

It is an example of

- A. Concealing type protective mimicry
- B. warning type protective mimicry
- C. alluring type aggressive mimicry
- D. concealing type aggressive mimicry

Answer: B



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88. Flowers of *Ophrys* resembles female wasp *Colpa* and are pollinated by male wasp. The flowers show mimicry

- A. Concealing type protective
- B. warning type protective
- C. alluring type aggressive
- D. concealing type aggressive mimicry

Answer: C



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89. Stick and Leaf insects resemble the surroundings. They undertake mimicry of the type

A. concealing -protective

B. warning -protective

C. alluring -aggressive

D. concealing -aggressive

Answer: A



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90. Praying Mantis is green coloured predator insect that shows mimicry of the type

- A. concealing-protective
- B. warning -protective
- C. alluring -aggressive
- D. concealing -aggressive

Answer: D



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91. Male Atlas Moth has huge antennae that can detect pheromone released by female moth from a distance of

A. 1 km

B. 3 km

C. 5 km

D. 8 km

Answer: D



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92. Birds are able to recognise their home through

- A. infra-red wavelength
- B. ultra-violet radiations
- C. magnetic system
- D. pheromones

Answer: B



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93. An animal that uses ultra-violet radiations for locating food and boundary of its territory is

A. desert iguana

B. desert frog

C. kangaroo rat

D. sea snake.

Answer: A



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94. A succession that does not follow the natural course due to human activity is

A. Subsere

B. plagiosere

C. prisere

D. asere.

Answer: B



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95. Culmination of a succession at a stage other than the natural climax is called

A. deflected sere

B. disclimax

C. plagioclimax

D. Both B and C

Answer: D



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96. The term succession was coined by

A. Buffon (1742)

B. king (1685)

C. Halt (1885)

D. cowles (1899)

Answer: C



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97. Succession on sand dune in

A. Lithosere

B. psychrosere

C. psammosere

D. halosere.

Answer: C



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98. Allochemic juglone is produced by

A. walnut

B. sunflower

C. barley

D. muller.

Answer: A



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99. The principle of competitive exclusion was stated by

A. gause

B. hardin

C. jaeger

D. muller.

Answer: A



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100. Which relationship is beneficial to both interacting organisms but is not obligatory

- A. commensalism
- B. proto cooperation
- C. mutualisms
- D. Both B and C

Answer: B



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101. The term homeostasis was coined by

A. whittaker

B. watt

C. Elton

D. cannon

Answer: D



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102. The amount of biogenetic nutrients present in the abiotic environment per unit area at any time is called.

- A. standing state
- B. standing crop
- C. detritus
- D. reserve nutrient

Answer: A



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103. Phosphorus has

- A. imperfect nutrient cycle
- B. perfect nutrient cycle
- C. gaseous cycle
- D. mixed cycle.

Answer: A



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104. Carboosphere comprises

A. atmosphere

B. lithosphere

C. hydrosphere

D. all the above

Answer: D



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105. Carbon Dioxide is being added to the cycling pool by

A. respiration and combustion

B. sedimentation of carbonates

C. precipitation, skeletons and fossilisation

D. Both B and C

Answer: A



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106. A source of nonbiological carbon dioxide is

A. volcanic eruptions

B. hot springs

C. weathering

D. all the above

Answer: D



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107. A source of non-biological oxygen is

A. photodissociation

B. photolysis

C. formation of fats from carbohydrates

D. Both B and C

Answer: A



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108. A process that occurs without loss or gain of heat is

- A. coriolis effect
- B. eustatic effectq
- C. adiabatic
- D. all the above

Answer: C



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109. Adiabatic expansion produces cooling, why?

- A. coriolis effect
- B. joule-kelvin effect
- C. le chatelier principle
- D. principle of parsimony

Answer: B



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110. A small area occupied by single males for displaying courtship traits is called

A. Niche

B. lek

C. territory

D. den

Answer: B



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111. Le - Chatelier principle is not applicable to :

- A. reaction of a system to maintain equilibrium
- B. feed back
- C. cybernetics
- D. carrying capacity

Answer: A



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112. First National Park of the world is

A. Peak district

B. snowdonia

C. yellowstone

D. lake district

Answer: C



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113. Name the first national park of India.

A. desert national park

B. Nanda devi national park

C. sanjay gandhi national park

D. corbett national park

Answer: D



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114. Cyclic/front rainfall generally occurs

A. all over the world

B. tropical areas

C. temperate areas

D. boundary of warm tropical air and cold polar air.

Answer: D



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115. Which area has four seasons

A. tropics

B. monosonic

C. temperate

D. arctic.

Answer: C



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116. Which one is a nonconventional source of energy

- A. Hydroelectric energy
- B. biomass energy
- C. solar pond
- D. fossil fuel energy.

Answer: C and B



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117. Hot water of Manikaran is used for generating electricity. It is

- A. solar energy
- B. biomass energy
- C. geothermal energy
- D. hydroelectric energy

Answer: C



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118. Lignite is

- A. gaseous fossil fuel
- B. liquid fossil fuel
- C. solid fossil fuel
- D. inorganic mineral

Answer: C



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119. Index of energy consumption is maximum for

A. U.S.A

B. japan

C. norway

D. canada

Answer: D



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120. A petroleum plant is

A. 2010

B. 2020

C. 2030

D. 2040

Answer: C



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121. Petroleum import costs India

A. Rs 3100 crores

B. Rs 2100 crores

C. Rs 1100 crores

D. Rs 500 crores

Answer: A



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122. Which one is not a commercial energy

A. Coal

B. animal power

C. petroleum and natural gas

D. Electricity

Answer: B



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123. First nuclear reactor was built in

A. Russia

B. U.S.A

C. U.K.

D. France

Answer: B



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124. Amount of commercial energy being obtained from nuclear reactors in France is

A. 0.35

B. 0.51

C. 0.73

D. 0.42

Answer: C



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125. In India, the first nuclear reactor was established at

A. 1942

B. 1944

C. 1945

D. 1947

Answer: A



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126. Which is the coolant in fast breeder reactor

- A. Pressurised light water
- B. boiling light water
- C. deuterium or heavy water
- D. liquid sodium

Answer: D



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127. The land of wind mills is

A. U.K.

B. U.S.A

C. Netherland

D. himachal pradesh

Answer: C



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128. An inexhaustible resource is

A. wind energy

B. solar energy

C. hydrothermal energy

D. tidal energy

Answer: B



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129. Maximum solar energy is trapped by:-

A. direct heating

B. thermoelectric conversion

C. photovoltaic conversion

D. all the above

Answer: D



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130. Photovoltaic cells are semiconductors of

- A. silicon
- B. gallium arsenide
- C. cadmium telluride
- D. all the above

Answer: D



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131. Total land area of the world is

- A. 1393 million hectares
- B. 13393 million hectares
- C. 103393 millions hectares
- D. 393 million hectares.

Answer: B



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132. Human habitations and installations occupy land area

A. 0.366

B. 0.166

C. 0.026

D. 0.006

Answer: C



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133. Land occupied for human habitation in India is

A. 0.08

B. 0.06

C. 0.045

D. 0.036

Answer: A



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134. Urban population of the world is

(a) 0.45

(b) 0.39

(c) 0.35

(d) 0.3

A. 0.45

B. 0.39

C. 0.35

D. 0.3

Answer: A



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135. Urban population in India comprises

A. 0.2

B. 0.27

C. 0.31

D. 0.35

Answer: B



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136. Soil occurs on land in

A. 0.6

B. 0.7

C. 0.8

D. 0.9

Answer: C



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137. Soil lost from cultivated land between 1950-1990 is

A. 0.1

B. 0.15

C. 0.2

D. 0.33

Answer: C



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138. In India, maximum ground water depletion has occurred in

A. Mumbai

B. Delhi

C. Punjab

D. Tamil nadu.

Answer: D



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139. Livestock population in India is

A. Over 500 million

B. 415 million

C. 350 million

D. 292 million

Answer: A



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140. Fuelwood demand in India is

A. 90 million m^3

B. 150 million m^3

C. 216 million m^3

D. 300 million m^3

Answer: D



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141. Wood requirement for Indian industries is

A. 10 million m^3

B. 20 million m^3

C. 30 million m^3

D. 40 million m^3

Answer: D



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142. Chipko movement originated in :

A. Allahabad

B. Chamoli

C. Hardwar

D. Dehradun .

Answer: B



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143. Chipko movement originated in Gopeshwar in

A. 1953

B. 1963

C. 1973

D. 1983

Answer: C



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144. A movement similar to Chipko which has spread in South is

A. Uliso

B. Appiko

C. Belesu

D. Balasu.

Answer: B



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145. The term wildlife was coined by

A. Hornaday

B. Augus

C. Montreal protocol

D. Wiener.

Answer: A



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Assertion and reason

1. Assertion: That branch of science which deals with the study of living organisms is called Biology.

Reason: Living organisms always have cellular organisation, which may be unicellular or multicellular.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: A



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2. Assertion: The term biology was coined by Lamarck and Travernis.

Reason: Morphology deals with the external form and structure of organisms.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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3. Assertion: Cell was discovered by Robert Hooke.

Reason: All the cells are eukaryotic.

A. If both As and R are correct and R is correct

explanation of As

- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



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4. Assertion: Paleobiology is that branch which deals with the study of fossil organisms.

Reason: Paleobotany and paleozoology are the branches of paleobiology.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: A



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5. Assertion: Anatomy deals with the structure and functions of the organisms.

Reason: All the plants are autotrophic.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If A is wrong and R is right

Answer: D

6. Assertion: The study of biomolecules is called Molecular biology.

Reason: Cell is a type of molecule.

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: C



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7. Assertion: The genetic material in Tobacco mosaic virus is RNA.

Reason: RNA is a type of nucleic acid.

A. If both A_s and R are correct and R is correct

explanation of A_s

B. If both A_s and R are correct but R is not

correct explanation of A_s

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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8. A; Homogeniser and ultracentrifuge are the devices for separating various cell organelles.

R; The radioactive substances used in biological studies are called Tracer elements.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



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9. A: Schleiden and Schwann formulated the theory of inheritance of characters.

R: The non-living matter also follows the laws of inheritance.

A. If both A and R are correct and R is a correct explanation of A

B. If both A and R are correct but R is not a correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



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10. A:Plants which live for many years are called perennials.

R:Perennials which produce flowers and seeds only once during their life span are called monocarpic plants.

A. If both A_s and R are correct and R is correct explanation of A_s

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



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11. \$ the sum total of anabolic and catabolic activities is called metabolism

! Organisms with positive metabolism remain healthy.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



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12. As: DNA contains all the necessary information and instructions for cell reproduction

R: Reproduction is not essential for the living organisms.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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13. \$ Homoestasis is the capacity of a living organisms to maintain its constant internal conditions.

! Majority of homoestatic processes occur with the help of oxygen.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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14. A- All of the living organisms utilize light energy for their metabolism

R- Positive metabolism is called catabolism

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



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15. \$ Mitochondria are called "Food-Factories" of a plant cell.

A Plant cell is called as a closed system.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



16. Assertion: Life on earth originated by interaction of the various chemical substances in the broth of the sea.

Reason :The first organisms were, perhaps the chemoautotrophs and anaerobes.

A. A. If both A and R are correct and R is correct explanation of A

B. B. If both A and R are correct but R is not correct explanation of A

C. C. If As is correct, R is wrong

D. D. If both As and R are wrong.

Answer: A



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17. \$ The entire material world which can be seen and detected with instrument is like microscops and telescope is called universe.

! Living organisms are unevenly distributed in the biosphere

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



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18. \$ solar system has 15 planets.

! Earth is the major member of the solar system

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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19. \$ The approximate distance between the sun and the Earth is about 148.7 million km.

! The dimensions of the habitates, regions of the earth are about 22.5 km

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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20. A; living organisms can exist alone

R: A population is a group of organisms of entirely different species occupying a particular area.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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21. A Nucleus was discovered by Robert Brown

R Large sized organisms have large sized cells.

A. If both As and R are correct and R is correct

explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: d



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22. A cell with actively dividing nucleus is called interphase cell.

R Prokaryotic cells have a true nucleus.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



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23. A: Mitosis is a equational division .

R:During mitosis the number of chromosomes is reduced to a half.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



24. A; Viruses are not an exception to all theory

R: viruses are acellular and have no cell machinery

A. If both A_s and R are correct and R is correct

explanation of A_s

B. If both A_s and R are correct but R is not

correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: D



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25. \$ Cellular totipotency means that single cell can give rise to a fully grown multicellular organisms

! Meristematic cells are also called "stem cells".

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A is correct, R is wrong

D. If both A and R are wrong.

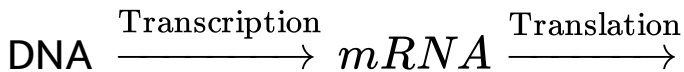
Answer: b



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26. A Flow of genetic information is through the DNA of the nucleus .

R Central Dogma is represented as follows



Polypeptides and proteins

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



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27. As :Endoplasmic reticulum also acts as the cell-skelton.

R:Flagellum of a prokaryotic cell is formed of a protein called Tubulin.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



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28. As: Acetabularia is the largest sized single celled green algae.

R PPLO is the smallest sized prokaryote.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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29. § Cyanobacterial cells are eukaryotic

! Prokaryotic cells are diploid.

A. If both As and R are correct and R is correct

explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



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30. \$ Protoplasm is the physical basis of a cell.

! Angstrom is a unit of measurements of electron microscopy.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: b



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31. A: All the living and non living matter is formed of molecules.

R: Molecules are of two types (i) Micro-molecules
(ii) Macro-molecules.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



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32. Minerals such as carbonates and phosphates acts as buffers.

! Biomolecules contain only 25 elements out of the 109 known elements.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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33. A: ATP is a type of coenzyme.

R: Adenine is a type of pyrimidine.

A. If both As and R are correct and R is correct

explanation of As

- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



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34. Ergosterol is a lipid that changes to vitamins D on activation by UV light.

! Iron is a biochemical component of haemoglobin.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



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35. \$ Minerals from 25 to 30% of the cell contents.

! Lipids form 40 to 50% of the cell contents.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



Watch Video Solution

36. \$ Proteins, polysaccharides and nucleic acid are the macromolecules of a cell.

! DNA contains Ribose Sugar.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



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37. Length of one turn of DNA is

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

38. § The two strands of DNA run in an antiparallel directions

DNA is formed of Deoxyribose sugar. Phosphorus and nitrogen bases called purines and pyrimidines.

A. If both As and R are correct and R is correct explanation of As

- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: B



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39. \$ The process of formation of polysaccharides by condensation of monomers is called hydrolysis. Glycogen is a stored food materials found in plants.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



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40. Assumption: Agar-agar is a carbohydrate obtained from some sea weeds. Reason: Agar agar is a polysaccharides formed of many galactose monomers.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



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41. A: In conjugated proteins, the protein molecule is joined to a non proteins group called prosthetic group.

R: Nucleoproteins are a type of conjugated proteins.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



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42. § Rhodopsin of rod cells and iodopsin of cone cells of retina are proteins

! Myosine and Actin are contractile proteins

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

43. A: Louis Pasteur discovered that fermentation is brought about by micro-organisms

R: Parasitic bacteria bring about fermentation.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: C



44. Those enzymes which are active inside a cell are called extra-cellular enzymes.

Enzymes lower the rate of biological activities.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



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45. A: Enzymes are special types of proteins.

R: Those substances which interfere with the action of enzymes are called inhibitors.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: b



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46. A: Coenzymes are usually proteins

R: The term feedback refers to the effect of enzyme concentration on its rate of reaction.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: d



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47. § The cell membrane helps in pinocytosis and phagocytosis.

! Cell membrane is permeable.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



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48. \$ Positive diffusion occurs against the concentration gradients.

! Osmosis does not require a semi-permeable membrane.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



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49. § Exosmosis causes turgidity.

! Endomosis causes flaccidity.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both A and R are wrong.

Answer: D



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50. § The biomembrane which surrounds a vacuole is called Tonoplast.

! Ribosomes have a plasma membrane.

A. If both A and R are correct and R is correct explanation of A

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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51. Lysosomes are also called suicidal bags of a cell.

Glyoxysomes and Peroxisomes are the types of microbodies.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



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52. \$ Plastids occur in plant cells and animals cells.

! Centriols are present only in plant cells.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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53. \$ Cell wall of plants is formed of fungal cellulose.

! Smooth endoplasmic reticulum has ribosomes on its flagellin.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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54. Amyloplasts store food materials in the form of starch grains.

Chloroplasts synthesis hexose sugars.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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55. § Nucleosome is present on the chromosomes.

! A true nucleus is called Eukaryon.

A. If both As and R are correct and R is correct

explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



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56. § Vacuoles help in compartmentisation inside a cell.

! A eukaryotic flagellum is formed of a protein called flagellin.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



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57. Respiration releases energy in the form of ATP

Respiration in the presence of O_2 is called Aerobic respiration.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



58. \$ Process of conversion of ADP into ATP is called phosphorylation.

! Glycolysis is also called EMP.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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59. Assertion; Respiration is an endogenous reaction.

Reason; Anaerobic respiration releases more energy than aerobic respiration.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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60. \$ The chief respiratory substrate of a cell is carbohydrate

! Fermentaiton is also called Glycolytic pathway.

A. If both As and R are correct and R is correct
explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



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61. A: Krebs cycle occurs in the matrix of mitochondria.

R: ATPase is a respiratory enzyme.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: B



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62. § Rudolf Virchow was the first to propose that new cells arise only from the pre-existing cells.

! Dividing cells have a low content of DNA.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



63. A :The regular sequences of a cell cycle is G_1 , S , G_2 , M and C

R: Replication of DNA occurs during S phase.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: A



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64. § The two strands of a chromosome are called sister chromatids

! The two sister chromatids get separated during Anaphase.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: A



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65. Assertion; Amitosis occurs with spindle formation.

Reason; Amitosis occurs during the formation of gametes in diploid organisms.

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: D



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66. \$ Karyokinesis is followed by cytokinesis.

! Two daughter nuclei are formed after telophase.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: B



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67. \$ The oldest microfossils of organisms resemble the modern day cyanobacteria.

! Cyanobacteria have oxygenic photosynthesis.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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68. In two kingdom classification , fungi were given a special status separately.

In five kingdom classification, fungi are included in kingdom plantae.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



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69. Viruses are at a border line position between living and non living.

Phytoplanktons are those living organisms which are aquatic.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



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70. \$ Ecologically, animals are consumers.

! Living organisms are classified as follows :

(i) Producers (ii) Consumers (iii) Decomposers

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



71. Systematics may be defined as that branch of science which deals with the diversity of life.

! Binomial nomenclature was proposed by Linnaeus.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



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72. Homologous organs are those which are functionally similar but different by origin.

Homothallic plants are those which are unisexual.

A. If both A and R are correct and R is correct explanation of A

- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: D



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73. \$ Classification based on the evolutionary relationships among the organisms is called phylogenetic classification.

! According to Binomial Nomenclature, each living organisms has a name of two parts.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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74. A group of related genera is classified as

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: D



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75. Progenote is considered to be the more ancient form of life which gave rise to archaeobacteria and eubacteria.

Monomers are always multicellular.

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: C



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76. \$ Peptidoglycan is found in the cell wall of Algae.

! Blue-green Algae are a group of Eukaryotes.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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77. Mesosome is a type of polyribosomes.

Polyribosomes form a part of the chromosomes.

A. If both A and R are correct and R is correct

explanation of A

- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: D



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78. Halophytes are those plants which grow in salty soils.

Heliophytes are those plants which grown in direct sunlight

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



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79. Spirulina is a rich source of proteins.

Spirulina has a spiral chloroplasts.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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80. \$ Sulphur depended archaeobacteria are called thermoacidophiles.

! Archeopteryx is considered to be a connecting link between Birds and Reptiles.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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81. Nostoc has chlorophyll "a" and phycocyanin pigments.

Chlorophyll "a" helps in oxygenic photosynthesis.

A. If both A_s and R are correct and R is correct

explanation of A_s

B. If both A_s and R are correct but R is not

correct explanation of A_s

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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82. Protists are eukaryotes

Eukaryotes do not have the double membraned organelles.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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83. Euglena is biflagellated and has cell wall.

Because cell wall is present, thus Euglena is a plant.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



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84. A: The Flagellum in protists is single stranded.

R: Single stranded flagellum has 9+2 structure.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: D



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85. A: Zygotic meiosis occurs at the time of germination of zygote.

R: Zygote may be diploid or triploid

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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86. Meiosis is a requirements of sexual reproduction.

Meiosis occurs in somatic cells.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



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87. \$ In the cell wall of Dinoflagellates, there is present only one groove.

! Diatoms have two flagella.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



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88. \$ Euglena has mixotrophic nutrition.

! Mixotrophic nutrition means that nutrition is autotrophic in the presence of light and saprophytic in the absence of light .

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



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89. Slime moulds are mainly saprophytic.

Saprophytes get their nutrition from a host.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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90. A: Foraminiferans have a calcareous shell.

R: Dimorphic nucleic acids are present in Paramecium.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



91. \$ Amoeba is a type of sporozoan.

! Sporozonas have two contractile vacules.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



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92. \$ Fungi may be heterotrophic or autotrophic.

! Mycelium of Rhizopus has uninucleated cells.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both A and R are wrong.

Answer: D



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93. In basidiomycetes, there are present dolipore septa.

! Ascospores are produced in *Penicillium*.

A. If both A and R are correct and R is correct explanation of A

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



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94. Yeasts form a pseudomycelium.

Yeast are prokaryotic.

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: C



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95. \$ In Basidiomycetes, there are preset dikaryotic cells called Synkaryons.

! Four exogenous spores are produced in Ascomycetes.

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: D



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96. \$ Mycorrhiza is a type of symbiosis.

! Lichens have phycobiont and mycobiont.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong

D. If both A and R are wrong.

Answer: B



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97. \$ *Puccinia graminis* causes rust disease of wheat.

! Sexual reproduction is absent in fungi imperfecti.

A. If both A and R are correct and R is correct explanation of A

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



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98. § That branch of science which deals with the study of Fungi is called Phycology.

! Parasitic fungi cause diseases only in plants.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



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99. \$ Tracheophytes are the plants with vascular tissues.

! Tracheophytes are of three types (i) Pteridophytes (ii) Gymnosperms (iii) Angiosperms

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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100. \$ A simple but dominant gametophyte is called Prothallus.

! Prothallus is found in Bryophytes.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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101. A: Chlamydomonas has many pyrenoids.

R; Pyrenoids help in the storage of oil droplets.

A. If both As and R are correct and R is correct

explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: c



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102. A: Carrageenin can coagulate blood.

R: Carrageenin is a type of phycocolloid.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



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103. \$ Formation of motile gametes occurs in Red Algae.

! Motile gametes in Cycas are muticiliated.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: d



104. \$ Cryptogams are those plants which have large sized sex organs.

! Pteridophytes are the cryptogams without embryo formation.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: D



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105. Dominant phase of bryophytes bear

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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106. § Circinate ptyxis is found in Angiosperms.

! The male reproductive organs of Angiosperms are called antheridia.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

107. § Asexual reproduction is also called Apomixis.

! Apogamy shortens the life cycle of a plant.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

108. Protonema occurs in the life cycle of

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: c



Watch Video Solution

109. § Fertilization with the help of a pollen tube is called Siphonogamy.

! Entry of pollen tube into the ovule through integuments is called Mesogamy.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: B



Watch Video Solution

110. § Flower is a modified shoot which helps in sexual reproduction.

! Monoparental reproduction is also called vegetative reproduction.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

111. Self pollination in bud condition of a flower is called cleistogamy.

! Cleistogamy is usually accompanied by geocarpy.

A. If both A and R are correct and R is correct explanation of A

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

112. \$ Angiosperms produce seeds, but do not produce fruits.

! Fruit and seed formation occurs in Gymnosperms.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

113. A: Orthotropous ovule has micropyle at the upper end.

R: Ovule is also called megasporangium.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: b



114. \$ Double fertilization and triple fusion occurs in Angiosperms.

! Triple fusion produces triploid type of endosperm.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

115. \$ The animals in which body temperature varies according to the surroundings are called poikilothermal animals.

! Human beings have four chambered heart.

A. If both A_s and R are correct and R is correct explanation of A_s

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

116. § The animals which give birth to young ones are called oviparous.

! Earthworms lay eggs and are unisexual.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

117. A: Secondary host of *Taenia solium* is pig.

R: Malarial parasite completes its life cycle in the blood of human beings alone.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



118. \$ Arthropoda is the largest group in the animal kingdom.

! Honey bee shows polymorphism.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



Watch Video Solution

119. § Mammals are warm blooded.

! Warm blooded animals can tolerate only the warm climate.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

120. \$ Notochord is present in vertebrates.

! Notochord is always formed of bones.

A. If both A and R are correct and R is correct

explanation of A

- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: C



Watch Video Solution

121. \$ The first formed embryonic cavity is called blastocoel.

! Annelids have a segmented body.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

122. \$ Neuron means a nerve cell.

! Neurons are found in the brain.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

123. \$ The excretory organs of Flatworms are called Flame cells.

! Excretory cells help in endocytosis.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



Watch Video Solution

124. \$ Silver fish is found in the sea.

! Fish represents warm blooded animals.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

125. \$ The microfossils discovered in the earth's oldest fossil bearing rocks resemble the eubacterian and some photosynthetic cyanobacteria.

! It indicates that the simple organisms are believed to be the ancestors of all the complex forms.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

126. \$ Exo-biology is a branch of biology.

! It deals with the study of external characters of the living organisms.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



127. \$ Mangrove plants grow in the deserts.

! These plants have symbiotic mycorrhizal roots.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



Watch Video Solution

128. A: Leghaemoglobin is a compound of Iron and is present in the root nodules of leguminous plants.

R: It acts as an oxygen scavenger and forms a temporary compound by combining with oxygen.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

129. A: Tap root system is that which arises from the radicle of seed.

R: Adventitious roots can also arise from the radicle.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

130. A: Temperature is an important factors for growth.

R: High temperature increases the diameter of Tap root.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



Watch Video Solution

131. Assertion: In prokaryotes, there is present a ring shaped chromosome.

Reason: The ring shaped chromosome is called Eukaryotic Nucleus.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



Watch Video Solution

132. Assertion: The patients of cholera, vomiting and dysentery are given intravenous drip of saline solution.

Reason: The saline solution kills the disease causing micro-organisms, after vomiting and dysentery.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

133. \$ Kingdom Monera includes the unicellular prokaryotic organisms.

! Eukaryotes are the organisms which have a eukaryotic nucleus and double membraned organelles.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

134. A: The process of synthesis of complex organic molecules from simpler ones, by the living organisms is called Anabolism.

R: Anabolism is always useful for the organisms.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



Watch Video Solution

135. Assertion: Euglena is an organisms with a controversial position in classification of living organisms.

Reason: Euglena has parasitic nutrition.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

136. Assertion; An incomplete flower has all the four whorls.

Reason; Polycarpellary apocarpous gynoecium means that there are many fused carpels.

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: D



Watch Video Solution

137. \$ Unicellular eukaryotes are the simplest organisms.

! Prokaryotes have the mitochondria whereas eukaryotes are without mitochondria.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

138. Annual plants live for only one favourable season.

! Polycarpic plants are those which produce flowers and fruits many times during their life span.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

139. A: The zygote develops into a multicellular organisms.

R: Each cell is totipotent.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



140. A: Pollination by insects is called self pollination.

R: Cross pollination is between two genetically similar flowers.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both As and R are wrong.

Answer: D



Watch Video Solution

141. A: The first step towards photosynthesis is reduction of CO_2 .

R: ATP is released by the reduction of CO_2 .

A. If both As and R are correct and R is correct explanation of As

- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



Watch Video Solution

142. \$ Agamospermy is the process of Asexual reproduction.

! Asexual reproduction occurs only in Algae.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: C



Watch Video Solution

143. A: Tap root system is that which arises from the radicle of seed.

R: Adventitious roots can also arise from the radicle.

A. If both A and R are correct and R is correct

explanation of A

B. If both A and R are correct but R is not

correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

144. Assertion: Blue green algae have chlorophyll 'a'.

Reason: Photosynthesis with the help of Bateriaochlorophyll releases oxygen.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

145. Assertion: Photosynthesis roots are a type of Tap Root System.

Reason: Anoxygenic photosynthesis is performed by photosynthetic roots.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

146. \$ Protists are unicellular eukaryotes.

! Eukaryotes do not have a nucleoid.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



Watch Video Solution

147. A: Nitrogen fixing bacteria always live in symbiosis.

R; Symbiosis occurs between the organisms of the same species.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

148. Aristotle is known as the father of biology because he was the first person to coin the term biology.

! Biology that branch of science which deals with the study of living beings alone.

A. If both A and R are correct and R is correct explanation of A

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

149. A: Morphology deals with the study of external characters of the organisms

R: Physiology deals with the study the various functions of a living organisms.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

150. \$ Cuscuta is dicot plant.

! In cuscuta the cotyledons are absent.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

151. \$ Sieve tubes in plants are formed of enucleated cells called sieve members.

! All the activities of a sieve cell are controlled by nucleated parenchyma cells.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: C



Watch Video Solution

152. A: Pollination with the help of a pollen tube is called porogamy.

R: Pollination occurs before meiosis of pollen mother cells.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



Watch Video Solution

153. § Velamen tissue can directly absorb moisture from the atmosphere

! Velamen tissue is present in desert plants.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



Watch Video Solution

154. Chimera is produced as a result of

- A. If both A_s and R are correct and R is correct explanation of A_s

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

155. Assertion: Dinoflagellates have two grooves in the cell wall.

Reason: There are many flagella in each groove.

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: C



Watch Video Solution

156. A: Fungi may be sometimes autotrophic.

R: Stored food material in Fungi is starch.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

157. A: Sperm in Bryophytes are flagellated.

R: Sperms in bryophytes move to the mature archegonia, under the effect of chemicals.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



Watch Video Solution

158. A: Funaria plant is monoecious.

R: Monoecious plants are those which are always unisexual.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



Watch Video Solution

159. \$ Rhizoids of female gametophyte of selaginella are multicellular.

! Selaginella is homosporous.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

160. A Those plants which produce seeds, without the formation of fruits are called Gymnosperms.

R Endosperm is triploid in Angiosperms

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

161. \$ Soil solution is absorbed by all the parts of a root .

! Soil solution is always of a high concentration.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



162. A: The first photosynthetic organisms which show oxygenic photosynthesis were cyanobacteria.

R: Photosynthesis by Eubacteria is Anoxygenic.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both As and R are wrong.

Answer: B



Watch Video Solution

163. Assertion: Anaerobic respiration occurs in the aquatic organisms.

Reason: Aquatic organisms are never autotrophic.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

164. A: Heritiera has pneumatophores.

R: Respiratory roots are also called pneumathodes.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

165. A: Those parts of the plants which help in vegetative reproduction are called propagules.

R: Vegetative propagation is a type of Asexual reproduction

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



Watch Video Solution

166. \$ Air layering is performed in those plants which have many, long flexible branches near the soil level.

! Layering method of vegetative propagation is performed in monocot plants.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

167. Assertion: Gravitational water is that which reaches the water table of the earth.

Reason: Movements under the effect of gravity are called geotropic movements.

A. 1. If both A and R are correct and R is correct explanation of A

B. 2. If both A and R are correct but R is not correct explanation of A

C. 3. If A is correct, R is wrong

D. 4. If both A and R are wrong.

Answer: B



Watch Video Solution

168. A Those genes which are present on "Y" chromosomes of human beings are called holandric genes.

R Holandric genes are present both in men as well as women.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: C



Watch Video Solution

169. \$ Inheritance of flower colour in *Mirabilis jalapa* is type of polygenic inheritance.

! Polysomes are a type of chromosomes.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

170. A Clitoris of woman is equivalent to the penis of men.

R The process of formation of sperms is called spermatogenesis.

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: C



Watch Video Solution

171. § Those two pairs of genes which if present in dominant stage, do not produce any expression but when present collectively in dominant stage, produce a phenotypic expression are called complementary genes.

! Inheritance of purple flower colour in Pea gives a phenotypic ratio of 9:7, as a result of selfing of F-1 - offsprings.

A. If both As and R are correct and R is correct
explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

172. \$ In case of human beings, the process of focusing of an object by the eyes is called dioptric part.

! Diatoms are a type of Nektons.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

173. As; The antidiuretic hormone (ADH) is also called Vasopressin hormone.

R: Those blood vessels which carry blood away from heart are called capillaries.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



Watch Video Solution

174. \$ The skeleton which occurs on the surface of animal body is called exoskeleton.

! Endoskeleton is formed of bones.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



Watch Video Solution

175. \$ Obelia has three types of zooids namely (i) polyps (ii) Balastostyles (iii) Medusae

! The occurrence of more than one forms in an individual is called polymorphisms.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

176. \$ Sea Aneomone has parasitic nutrition.

! Roundworms are also called Trematodes.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



Watch Video Solution

177. AS:- Octopus is also called "Devil Fish".

R:- Animals of class crustacea have three pairs of appendages.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



Watch Video Solution

178. \$ Male anopheles acts as the carrier host for malarial parasite

! Sleeping Sickness is caused by Leishmonia.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



Watch Video Solution

179. AS Scorpion has a sting in its tail

R Tube feet are present in starfish

A. If both As and R are correct and R is correct

explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

180. \$ Electric ray fish is also called Torpedo

! Dinosaurs are also called Thunder-Lizards.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

181. \$ Duck billed platypus is viviparous

! Duck is a type of platypus.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



Watch Video Solution

182. \$ If natality is greater than mortality, it leads to population explosion.

! The scientific study of various aspects of human population is called demography.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



Watch Video Solution

183. Assertion; Biosphere is a closed system

!Reason; Closed vascular bundles are having intrafascicular cambium.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

184. A Phagotrophs take solid nutrition.

R Photosynthetic organisms are called Producers.

A. If both A and R are correct and R is correct

explanation of A

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

185. \$ Pyramid of Energy is always upright

! Pyramid of biomass is always inverted.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



Watch Video Solution

186. Assertion: Green plants have two types of nutrition. (i) Organic nutrition (ii) Inorganic nutrition

Reason: Micronutrients are required in large quantities.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



Watch Video Solution

187. As Air pollutants are always gaseous.

R Ultraviolet rays do not cause any harm to the human beings.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



Watch Video Solution

188. As Stilt roots grow obliquely into soil.

R Respiratory roots are negatively geotropic.

A. If both As and R are correct and R is correct

explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

189. § Those lateral buds which are near the apical bud are called dormant buds.

! Dormancy of lateral buds is due to Apical dominance

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

190. \$ Weak stems which can climb a support without any climbing organs are called Twiners.

! Some Twiners have clinging roots.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



191. § The method of arrangements of leaves on a stem is called aestivation

! Venation in a monocot named Smilax is of the parallel type.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

192. Phyllode is a modification of :

A. If both A and R are correct and R is correct

explanation of A

B. If both A and R are correct but R is not

correct explanation of A

C. If A is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

193. \$ Xylem is a simple permanent tissue.

! Xylem is present in Bryophytes.

A. If both A_s and R are correct and R is correct

explanation of A_s

B. If both A_s and R are correct but R is not

correct explanation of A_s

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



Watch Video Solution

194. § Sieve tubes have "P" proteins.

! In gymnosperms, sieve tubes are associated with albuminous cells.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

195. Assertion Xylem condition in roots is exarch

Reason Xylem has four different types of cells.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

196. \$ Secondary growth occurs in those plants which have closed vascular bundles.

! Cork is produced by intrafascicular cambium.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



197. § Leaves of monocots are amphistomatic.

! Dicot leaf has dimorphic cells in mesophyll.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

198. \$ In osmosis, semipermeable membrane is a must.

! Cell wall is semipermeable.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

199. § "Transpiration pull Theory" was proposed by Dixon and Joly .

! Loss of water droplets from hydathodes is called Guttation.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

200. A Water potential of distilled water is zero.

R C_2 cycle is also called Kelvin cycle.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



Watch Video Solution

201. \$ those substances which reduce the rate of transpiration are called transpirants.

! Imbibition causes Osmotic pressure.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



Watch Video Solution

202. § Chlorosis means destruction or the loss of chlorophyll pigments.

Chlorosis cause geotropism

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: C



Watch Video Solution

203. A The phenomenon of soil-less culture of plants is called Hydroponics.

R Donnan equilibrium is due to fixed ions in the cells

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



Watch Video Solution

204. \$ Flower of Rafflesia is largest sized.

! Large flowers have wind pollination

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



Watch Video Solution

205. Assertion Insectivorous plants get nitrogenous nutrition from the insects.

Reason IAA is growth promoter.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: B



Watch Video Solution

206. \$ Process of separation of photosynthetic pigments is called chromatography

! Chromatophore have accessory photosynthetic pigments such as phycocyanin.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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207. P_{680} is called PS II

! C-4 plants have photorespiration.

A. If both As and R are correct and R is correct

explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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208. Assertion: Rhipidium is a type of helicoid uniparouscyme.

Reason: Sorosis fruit is an aggregated fruit.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

209. \$ Actinomorphic flower has a regular symmetry.

! Shoe-flower is actinomorphic.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



210. \$ Diadelphous has two groups of epipetalous stamens.

! Dichogamy refers to unisexual flowers.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: D



Watch Video Solution

211. As Single cotyledon of monocots is called
Scutellum

R Monocots show secondary growth.

A. If both As and R are correct and R is correct
explanation of As

B. If both As and R are correct but R is not
correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



Watch Video Solution

212. \$ Grafting is always between a stock and scion.

! Movements under the effect of shock are called Seismonastic.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

213. A Blood is a type of fluid tissue.

R Blood has erythrocytes, Leucocytes, thrombocytes and plasma.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



214. As: There are present villi in the intestine.

R: Ileum is the other name of small intestine.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



Watch Video Solution

215. A The fine branches of trachea are called bronchioles.

R Bronchitis is a respiratory disease.

A. If both A and R are correct and R is correct

explanation of A

B. If both A and R are correct but R is not

correct explanation of A

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



Watch Video Solution

216. A The blood vessels called arteries have thick walls.

R Blood transfusion should not be done without testing the blood group and Rh factor.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

217. As: Bowman's capsules are present in the kidneys of human beings.

R: Bowman's capsule is associated with henle's loop

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



Watch Video Solution

218. \$ Cerebrum is formed of four cerebral hemispheres.

! Pituitary gland is not a type of endocrine gland.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: D



Watch Video Solution

219. § The reproductive cells in the testes are called spermatocytes.

! Labia majora is a part of the external genitalia of human females.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



Watch Video Solution

220. As: Gregor Mendel is also known as the "father of biology"

R: He gave the law of Epistasis.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



221. A cross between the pure recessive parent and the F-1 offspring is called Test cross.

! Test cross is a type of Back cross.

A. If both As and R are correct and R is correct
explanation of As

B. If both As and R are correct but R is not
correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



Watch Video Solution

222. \$ Incomplete dominance is due to gene interaction.

! Complementary genes give the ratio 9:7

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



Watch Video Solution

223. Sickle cell anaemia is a type of pleiotropy.

! Sex linked inheritance is also called criss cross inheritance.

A. If both As and R are correct and R is correct explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



Watch Video Solution

224. § The term chromosome was introduced by Waldeyer.

! Sex chromosomes are also called Heterosomes.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



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225. Assertion: DNA replication in a bacterial cell is bidirectional.

Reason: A chromosomes with primary constriction is called "SAT" chromosomes.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



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226. Assertion: A chromosomes with equal sized arms is called isobrachial.

Reason: Barr bodies are present in the cells of human females.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



Watch Video Solution

227. As: Haemophilia is a sex linked disease

R: Haemophilia is due to a recessive gene.

A. If both As and R are correct and R is correct

explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



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228. XX^C represents the genotype of a human female which acts as carrier of genes for colour blindness.

! Any change in the structure of a chromosomes leads to mutations.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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229. \$ When the total number of chromosomes is not the exact multiple of the haploid number of an organisms, the phenomenon is called euploidy.

! Euploidy can be Nullisomic also.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: D



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230. As- Inheritance of Kappa particles in Paramecium is type of extra-nuclear inheritance. R- The above process is also called Cytoplasmic inheritance.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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231. As Night blindness is due to deficiency of vitamin "A"

R Actually the term vitamin means vital minerals.

A. If both As and R are correct and R is correct explanation of As

- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: A



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232. \$ "A" DNA contains eleven base pairs.

! "Z" DNA contains only nine base pairs.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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233. Assertion; DNA replication is semiconservative.

Reason; Helicases are the enzymes which can break the hydrogen bonds between the nucleotides of DNA

- A. If both A and R are correct and R is correct explanation of A
- B. If both A and R are correct but R is not correct explanation of A
- C. If A is correct, R is wrong
- D. If both A and R are wrong.

Answer: B



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234. § That branch of biology which deals with the study of origin of life is called biopoiesis.

! Biogenesis the process of origin of life from the pre-existing life.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: B



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235. \$ The Heterotroph theory of origin of life was proposed by Haldane.

! That part of earth which is without any traces of life is called Abiotic earth.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: B



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236. \$ Wing of a bat is said to be homologous to the wing of bird and analogous to the wing of an insect.

! Homologous organs are similar in function but analogous organs are similar in origin.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: C



Watch Video Solution

237. § Colchicine is a chemical which can arrest cell division at metaphase

! Colchicine is also called mitotic tympanic cavity of the ear.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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238. \$ Benign tumour remains confined whereas a malignant tumour undergoes metastasis.

! Tympanic fluid is filled in the tympanic cavity of the ear.

- A. If both A_s and R are correct and R is correct explanation of A_s
- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: C



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239. Ability of a gene to express more than one characters is called Pleiotropy.

! The occurrence of a bacterium in more than one morphological forms is called poly-morphisms.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: B



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240. § The tissue which connects a bone to the muscles is called cartilage.

! Haemoglobin of blood combines permanently with oxygen

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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241. § The enzymes which joins short pieces DNA in the laggins strand is called ligase.

! Lagging strand and leading strand are formed due to replication fork.

A. If both A_s and R are correct and R is correct explanation of A_s

B. If both A_s and R are correct but R is not correct explanation of A_s

C. If A_s is correct, R is wrong

D. If both A_s and R are wrong.

Answer: A



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242. A: Human population can be controlled with the help of certain devices such as condoms, copper T and diaphragm.

R: All the above devices acts as barriers for fertilization.

A. If both As and R are correct and R is correct explanation of As

B. If both As and R are correct but R is not correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: A



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243. A Crop rotation decreases the soil fertility.

R High concentration of minerals is required as fertilizers.

A. If both As and R are correct and R is correct

explanation of As

B. If both As and R are correct but R is not

correct explanation of As

C. If As is correct, R is wrong

D. If both As and R are wrong.

Answer: D



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244. A Modern wheat is hexaploid.

R Polyploidy leads to the formation of new varieties.

A. If both As and R are correct and R is correct
explanation of As

- B. If both A_s and R are correct but R is not correct explanation of A_s
- C. If A_s is correct, R is wrong
- D. If both A_s and R are wrong.

Answer: A



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245. A Appearance of pubic hair in human beings indicates the onset of puberty.

R Pubis is a bone of the pelvic girdle of human beings.

A. If both A and R are correct and R is correct explanation of A

B. If both A and R are correct but R is not correct explanation of A

C. If A is correct, R is wrong

D. If both A and R are wrong.

Answer: B



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246. Assertion: The endocrine part of human pancreas is represented by α and β cells.

Reason: Endocrine gland have ducts.

- A. If both As and R are correct and R is correct explanation of As
- B. If both As and R are correct but R is not correct explanation of As
- C. If As is correct, R is wrong
- D. If both As and R are wrong.

Answer: C



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Model test paper-1

1. The term taxonomy was coined by

(a) Linnaeus

(b) De Candolle

(c) Lamarck

(d) Aristotle

A. Linnaeuse

B. De Candolle

C. Lamarck

D. Aristotle

Answer: B



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2. Crocodile heart is

A. Two chambered

B. Three chambered

C. Four chambered

D. Multi-chambered

Answer: C



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3. Bird differs from bat in the absence of

- A. Homeothermy
- B. Four chambered heart
- C. Tracheae
- D. Diaphragm

Answer: D



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4. Biotic potential is increase in population under

- A. Natural conditons
- B. Climatic conditions
- C. Optimum conditions
- D. Given coditions

Answer: C



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5. *Dunaliella* is able to live under saline conditions by storing

A. Glycerol

B. Sorbitol

C. Proline

D. Starch

Answer: A



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6. Association between barnacle and Limulus is :

- A. Symbiosis
- B. Commensalism
- C. Parasitism
- D. Predatorship

Answer: B



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7. Deciduous forests have:

- A. Variety of grasses
- B. Broad leaved trees
- C. Narrow leaved trees
- D. Variety of Crocodiles

Answer: B



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8. Which of the following process helps in nutrient conservation

- A. Mineralisation

B. Immobilisation

C. Leaching

D. Nitrification

Answer: B



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9. In India grasslands occur in area

A. 0.05

B. 0.13

C. 0.18

D. 0.23

Answer: C



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10. Eutrophications of water body occurs due to addition of

A. Detergents

B. Fertilizers

C. Sewage

D. All of above

Answer: D



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11. Endangered plant species are conserved through

- A. Herbarium
- B. Gene library
- C. Gene bank
- D. Reducing pollution

Answer: C



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12. Segregation of genes take place during

- A. Metaphase
- B. Anaphase
- C. Prophase
- D. Embryo formation

Answer: B



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13. A double homozygous yellow round seeded plant of Pea is crossed with green wrinkled seeded plant. The offspring shall be of

- A. One type
- B. Two types
- C. Four types
- D. Several types

Answer: A



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14. Phenotype is influenced by

A. Environment

B. Development

C. Ageing

D. All of above

Answer: D



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15. Multiple root cap occurs in

A. Maize

B. Pandanus

C. Vanda

D. Piper bette

Answer: B



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16. Thorn is a stem structure because it

A. Axillary

B. Like a branch

C. Hard pointed structure

D. Aerial

Answer: A



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17. Plants without leaves during one season are

A. Caducous

B. Deciduous

C. Evergreen

D. Semigreen

Answer: B



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18. A flask-shaped fleshy receptacle enclosing both the types of flowers is present in

- A. Cyathium
- B. Hypanthodium
- C. Coenanthium
- D. Spadix

Answer: B



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19. which one of the following has compound umbel

A. Coriandrum

B. Androsace

C. Centella

D. Morus

Answer: A



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20. Anthers are fused and filaments are free in

A. Sunflower

B. Gossypium

C. Murraya

D. Petunia

Answer: A



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21. Uniparous branching occurs in

A. (a) Mirabilis

B. (b) Euphorbia

C. (c) Saraca

D. (d) Viscum

Answer: C



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22. Bitterness of cucurbits is due to

A. (a) Alkalinity of pulp

B. (b) Bitter seeds

C. (c) Triterpenes

D. (d) Acidity

Answer: C



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23. Lacunate collenchyma is found in the stem of

A. Tomato

B. Sunflower

C. Tangetes

D. Cucurbite

Answer: D



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24. Gene mutations occurs in

(a) Chromosomes

(b) DNA

(c) RNA

(d) Nucleus

A. Chromosomes

B. DNA

C. RNA

D. Nucleus

Answer: B



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25. Chromosomal basis of sex determination was discovered in the plant :

A. Rumex

B. Melandrium

C. Concinia

D. Spharocarpus

Answer: B



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26. The terms cistron, recon and muton were coined by

- A. Ingram
- B. Leaderberg
- C. Benzer
- D. Bateson

Answer: C



[Watch Video Solution](#)

27. Smallest segment of genetic material affected by mutation is

A. Recon

B. Cistron

C. Muton

D. Exon

Answer: C



[Watch Video Solution](#)

28. DNA strand is synthesized in the direction

A. (a) $5' \rightarrow 3'$

B. (b) $3' \rightarrow 5'$

C. (c) $1' \rightarrow 4'$

D. (d) $6' \rightarrow 1'$

Answer: A



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29. Okazaki fragments give rise to

- (a) Master strand
- (b) Sense strand
- (c) Lagging strand
- (d) Leading strand

A. Master strand

B. Sense strand

C. Lagging strand

D. Leading strand

Answer: C



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30. A gene that takes part in synthesis of polypeptide is

- (a) Structural gene
- (b) Regulator gene
- (c) Operator gene
- (d) Leading strand

A. Structural gene

B. Regulator gene

C. Operator gene

D. Leading strand

Answer: A



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31. Bacterial transformation was discovered by

- (a) Avery et al
- (b) Watson and Crick
- (c) Griffith
- (d) Hershey and Chase

- A. Avery et al
- B. Watson and Crick
- C. Griffith

D. Hershey and Chase

Answer: C



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32. Coconut fruit is dispersed by

A. Air

B. Animals

C. Autochory

D. Water

Answer: D



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33. Microscopic structure having polar nuclei is

- A. (a) Pollen tube
- B. (b) Embryo sac
- C. (c) Pollen grain
- D. (d) Male gamete

Answer: B



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34. When a diploid female parent is crossed with a tetraploid male the ploidy of endosperm cells in the resulting seed is

- A. Tetraploid
- B. Triploid
- C. Diploid
- D. Pentaploid

Answer: A



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35. Virus free plants can be obtained by

- A. Antibiotic treatment
- B. Bordeaux mixture
- C. Root tip culture
- D. Shoot tip culture

Answer: D



Watch Video Solution

36. Differentiation of callus into plant parts is

- A. Embryogenesis
- B. Embryoid formation
- C. Morphogenesis
- D. Totipotency

Answer: C



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37. Vegetative shoot apex or stem apical meristem

is

(a) Conical

(b) Broad

(c) Broad and flat

(d) Narrow

A. Conical

B. Broad

C. Braod and flat

D. Norrow

Answer: A



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38. Vessels are absent in

- (a) Teak wood
- (b) shisham wood
- (c) chir wood
- (d) saal wood

A. Teak wood

B. shisham wood

C. chir wood

D. saal wood

Answer: C



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39. Leptom is the name of

- A. Out part of bark
- B. Living part of bark
- C. Phloem
- D. Conducting part of phloem

Answer: D



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40. Interfascicular cambium develops from the cells of

A. Cortex

B. Pith

C. Pericycle

D. Medullary rays

Answer: D



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41. Cork is impervious to water due to the presence of _____ in its cell wall.

A. Cutin

B. Lignin

C. suberin

D. Chitin

Answer: C



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42. Root hairs absorb water from soil due to

- A. Osmotic pressure
- B. Atmospheric pressure
- C. Turgor pressure
- D. Suction pressure

Answer: D



Watch Video Solution

43. Alveoli are unable to receive full oxygen due to flatterring of tracheal and broachial vessels in

- A. Bronchitis
- B. Asthma
- C. Emphysema
- D. Pneumonia

Answer: B



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44. Osmotic theory of active water absorption was given

A. Kramer(1941)

B. Eaton (1943)

C. Atkins (1916)

D. Priestley (1923)

Answer: C



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45. Root pressure can be measured by

- A. Porometer
- B. Potometer
- C. Auxanometer
- D. Manometer

Answer: D



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46. Major nitrogen fixation is carried out by

- A. Lightning
- B. Chemical industries
- C. symbiotic bacteria
- D. Leaching

Answer: C



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47. Thylakoids removed from chloroplasts were kept in illuminated culture having C_2 and water, it did not produce sugar because of

- A. Absence of enzymes
- B. Nonlinking of PS 1 and PS 2
- C. Absence of light trapping
- D. Nonformation of light assimilatory power

Answer: A



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48. which of the following best constitutes Hill reaction ?

- A. Photolysis by chloroplasts

- B. Photolysis of water by isolated chloroplasts forming ATP and NADPH
- C. Photolysis of water by isolated illuminated chloroplasts causing reduction of some chemicals and liberation of oxygen
- D. Photolysis of water liberation oxygen and hydrogen by illuminated isolated chloroplasts

Answer: C



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49. Inflammation reaction is brought about by

- A. Mast cells
- B. Plasma cells
- C. Macrophages
- D. Adipose cells

Answer: A



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50. Oxygen containing carotenoids are

A. Carotenes

B. Xanthophylls

C. Phycobilllis

D. Anthocyanins

Answer: B



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51. Phytotron is a device by which

A. Electrons are bombarded

B. Protons are liberated

C. Plants are grown in controlled environment

D. Mutations are produced in plants

Answer: C



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52. What will be the effect on phytochrome in a plant subjected to continuous red light?

A. Increased synthesis

B. Decreased level

C. Destruction

D. Destruction and synthesis remain in balance

Answer: D



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53. Which of the following is a cytokinin ?

A. Phytochrome

B. Leucine

C. Ethylene

D. Zeatin

Answer: D



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54. Phytochrome was isolated by

A. Butter et al

B. W.Went

C. R.Hill

D. Borthwick et al

Answer: A



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55. Movements caused by internal factors are

- A. Paratonic
- B. Intrinsic
- C. Rheotropism
- D. Autonomic

Answer: D



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56. Sleep movement Papaya/Balsam is

A. Autonomic movement

B. Growth movement

C. Tropic movement

D. Movement of locomotion

Answer: B



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57. Goblet cells are

- A. Unicellular glands
- B. Multicellular glands
- C. Stratified epithelium
- D. Dead keratinised cells

Answer: A



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58. Direction of nerve impulse is reversed in nerve with

- A. Axo -axonic

B. Axo-dendrite

C. Axo -axondendritic

D. None of the above

Answer: A



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59. Kupffer's cells are

A. Hormone secreting

B. Fat cells

C. Mast cells

D. Phagocytic

Answer: D



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60. Heparin is secreted by

A. Kidney

B. Blood cells

C. Nerve cells

D. Liver

Answer: D



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61. Bunodont teeth occur in

A. Elephant

B. Sheep

C. Carnivores

D. Humans

Answer: D



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62. Taeniae coli are constituents of

A. Ileum

B. Caecum

C. Rectum

D. Colon

Answer: D



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63. Recombinant DNA or r DNA technology was discovered by

- A. (a) Watson and Crick
- B. (b) Sutton and Boveri
- C. (c) Cohen and Boyer
- D. (d) Bateson and de Vries

Answer: C



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64. The ventilation movements of the lungs in mammals are governed by

- A. Muscular wall of the lungs
- B. Intercostal muscles
- C. Diaphragm
- D. Diaphragm and intercostal muscles

Answer: D



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65. The dissociation curve is associated with

- A. Carbonic of erythrocytes
- B. Carbon dioxide
- C. Oxygen
- D. Oxyhaemoglobin

Answer: D



Watch Video Solution

66. The coagulation of blood occurs due to

- A. Destruction of erythrocytes
- B. Destruction of leucocytes
- C. Change of fibrinogen into fibrin
- D. Formation of serum

Answer: C



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67. Which one of the following anticoagulant is added in blood during storage?

- A. NaCl

B. Sodium oxalate

C. KCl

D. Thromboplastin

Answer: B



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68. Heart beat is initiated by

A. A V node

B. SA node

C. Bundle of His

D. Purkinje fibres

Answer: B



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69. Cold blooded animal with a single circulation is

A. Fish

B. Ampibian

C. Reptile

D. All the abovse

Answer: A



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70. Glycosuria is the term used for

- A. Loss of glucose in urine
- B. Loss of blood in urine
- C. Loss of salts in urine
- D. Noen of these

Answer: A



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71. The glomerular afferent arteriole has a pressure of

A. + 120 mm Hg

B. - 120 mm Hg

C. + 95 mm Hg

D. + 75 mm Hg.

Answer: D



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72. The number of pairs of false ribs is

A. 2

B. 3

C. 4

D. 7

Answer: B



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73. Corpora striata is

(a) Roof of lateral ventricle

- (b) Floor of lateral ventricle
- (c) Lateral walls of lateral ventricle
- (d) None of these

- A. Roof of lateral ventricle
- B. Floor of lateral ventricle
- C. Lateral walls of lateral ventricle
- D. None of these

Answer: B



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74. Arbor vitae is composed of

- (a) Grey matter
- (b) White matter
- (c) Neuroglia cells
- (d) All of above

- A. Grey matter
- B. White matter
- C. Neuroglia cells
- D. All of above

Answer: B



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75. Macula lutea is part of

- (a) Optic nerve
- (b) Sclerotic
- (c) Choroid
- (d) Retina

A. Optic nerve

B. Sclerotic

C. Choroid

D. Retina

Answer: D



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76. Largest ear ossicle is

A. Incus

B. Stapes

C. Malleus

D. Stapedial plate

Answer: C



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77. Hormones of the pituitary gland are

A. All steroids

B. All proteins

C. Some steroids and some proteins

D. Complex substances formed from proteins

steroids, carbohydrates

Answer: B



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78. The primary target of the hormones of hypothalamus is

A. Pineal gland

B. Thymus

C. Pituitary

D. Testis

Answer: C



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79. Stages in menstrual cycle are

- A. Recovery phase and proliferative stage
- B. Proliferative phase and secretory phase
- C. Proliferatives, secretory and menstrual phase
- D. Recovery phase, secretory phase and phase of menstrual flow

Answer: C



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80. Lower narrow end of uterus is called

A. Urethra

B. Cervix

C. Clitoris

D. Vulva

Answer: B



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81. The discoblastula is found in

A. Echidna

B. Man

C. Branchiostoma

D. Rana

Answer: A



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82. Alimentary canal is derived from

A. Endoderm

B. Ectoderm

C. Mesoderm

D. Ectoderm and endoderm

Answer: A



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83. Which enzyme is located on the inner mitochondrial membrane

A. Lactate dehydrogenase

B. Malate dehydrogenase

C. Isocitrate dehydrogenase

D. Succinate dehydrogenase

Answer: D



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84. Number of DNA coils over a nucleosome is

A. $\frac{23}{4}$

B. $\frac{21}{4}$

C. $\frac{13}{4}$

D. $\frac{11}{4}$

Answer: C



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85. In microbial genetics which one is referred to as "Griffith effect"?

- A. DNA Transcription
- B. RNA translation
- C. Bacterial transformation
- D. Bacterial transduction

Answer: C



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86. Diversity of habitat over a geographical area is

- A. Alpha diversity
- B. Beta diversity
- C. Gamma diversity
- D. Delta diversity

Answer: C



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87. Sympatric speciation develops reproductive isolation without

- A. Geographic
- B. Barrier to mating
- C. Barrier to gene flow
- D. Genetic change

Answer: A



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88. Induced breeding is carried out with the help of extract from

- A. Thyroid
- B. Parathyroid
- C. Pituitary
- D. Adrenal

Answer: C



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89. Prosthesis that is designed to generate repetitive electrical impulses to the heart, is known as

(a) Artificial cardiac pacemaker

(b) Artificial heart valve

(c) Intra-aortic balloon pump

(d) Heart- lung machine

A. Artificial cardiac pacemaker

B. Artificial heart valve

C. Intra-aortic balloon pump

D. Heart- lung machine

Answer: A



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90. Immunomodulators

A. Interleukins

B. Interferons

C. Tumour necrosis factors

D. All the above

Answer: D



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91. Lysozyme occurs in

A. Tears

B. Tears and saliva

C. Tears, saliva, sweat and mucus

D. Gastric juice

Answer: C



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92. Immunodeficiency can result from

A. Gene mutation

B. Infection

C. Malnutrition

D. All the above

Answer: D



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93. Antibiotic useful in treatment of anthrax is

- (a) Penicillin
- (b) Chloramphenicol
- (c) Ciprofloxacin
- (d) Erythromycin

A. Penicillin

B. Chloramphenicol

C. Ciprofloxacin

D. Erythromycin

Answer: C



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94. Foot and mouth disease of animals is caused by

- A. Bacterium
- B. Protozoan
- C. Virus
- D. Worm

Answer: C



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95. Severely undernourished component of human population is

(a) 0.2

(b) 0.4

(c) 0.5

(d) 0.6

A. 0.2

B. 0.4

C. 0.5

D. 0.6

Answer: A



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96. Mortality rate is higher in

- A. Male infants than female infants
- B. Male youth than female young
- C. Male elderly than female elderly
- D. All of above

Answer: D



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97. Pyramid of population for Europe and North America is

- A. Urn-shaped
- B. Bell-shaped
- C. Triangular
- D. Dumb- bell shaped

Answer: A



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98. Number of known species of organisms on this earth is

A. 5.0 million

B. 3.2 million

C. 1.7 million

D. 1.32 million

Answer: C



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99. Discovery of new species has recently picked up due to project

(A) Species 2000

(B) Global Diversity information Facility

(C) Agenda 21

(D) Both A and B

A. Species 2000

B. Global Diversity Information Facility

C. Agenda 21

D. Both A and B

Answer: D



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100. Competition results in

- A. Extinction
- B. Creation of niches
- C. Symbiosis
- D. Mutation

Answer: A



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1. In maize grain, plumule is covered by protective sheath

A. Coleorhiza

B. Coleoptile

C. Tegmen

D. Scutellum

Answer: B



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2. The edile part in fruit of Almond/Trapa is

A. Endrocarp

B. Mesocarp

C. Epicarp

D. Cotyledons

Answer: B



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3. Seed leaf is

A. Leaf present over the plumule

B. Cotyledon

C. Coleoptile

D. Mesocotyl

Answer: B



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4. Chromosomes found in the salivary glands of Drosophila are

A. Polytene

B. Supernumerary

C. Lampbrush

D. B -chromosome

Answer: A



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5. The term mutation was coined by

A. Morgen

B. Beadle and Tatum

C. Hugo de Vries

D. H. J. Muller

Answer: C



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6. XX-XO sex chromosome complement occurs in

A. Cockroach

B. Honey bee

C. Chimpanzee

D. Human female

Answer: A



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7. which one is homogametic ?

- A. Human child
- B. Human embryo
- C. Human male
- D. Human female

Answer: B



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8. A codon specifies the same amino acid in Brassica and homo because codons are

A. Non-overlapping

B. Commaless

C. Universal

D. Nonambiguous

Answer: C



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9. Adapter molecule is

A. mRNA

B. rRNA

C. DNA

D. tRNA

Answer: D



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10. Enzyme that cuts DNA at specific sites is

A. Restriction endonuclease

B. DNA ligase

C. DNA polymerase

D. Reverse transcriptase

Answer: A



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11. Bt cotton is

A. Transgenic plant

B. Mutated plant

C. Cloned plant

D. Hybrid plant

Answer: A



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12. Seeds are beset with tiger's claw in

A. Martynia

B. Xanthium

C. Spear Grass

D. Puncture Vine

Answer: A



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13. Which is part of female reproductive system

A. Stamen

B. Anther

C. Microspore

D. Embryo sac.

Answer: D



Watch Video Solution

14. The gametes taking part in double fertilization are

A. 5

B. 4

C. 3

D. 2

Answer: C



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15. Tissue culture was developed by

- A. Haberlandt
- B. Nonbecourt
- C. Hanning
- D. Gautheret

Answer: A



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16. Axenic culture is

(a) pure culture without any contamination

(b) pure culture without any nutrient

(c) Culture of tissue

(d) Culture of gene

A. Culture of tissue

B. Culture of genes

C. Pure culture without contamination

D. Pure culture of microbe without any external
nutrient

Answer: C



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17. Pith is produced by

A. Lateral meristem

B. Protoderm

C. Procambium

D. Ground meristem

Answer: D



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18. Non-cellular layer that connects epithelium to connective tissue is

- A. Basement membrane
- B. Epidermis
- C. Dermis
- D. Cell junction

Answer: A



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19. In which of the following , phloem occurs in two patches ?

A. Maize

B. Cucurbita

C. Sunflower

D. Dracaena

Answer: B



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20. The endarch condition is characteristic of

- (a) root
- (b) stem
- (c) leaves
- (d) petiole

A. Root

B. Stem

C. Leaves

D. Petiole

Answer: B



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21. stomatal crypts are found in the leaf of

A. Sunflower

B. Olender

C. Maize

D. Nymphaea

Answer: B



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22. The pressure exerted by wall of the cell on the protoplast is

A. W.P.

B. T.P.

C. D. P.

D. O.P.

Answer: A



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23. The number of phenotypes in ABO blood groups is

(a) 1

(b) 4

(c) 6

(d) 8

A. 2

B. 3

C. 4

D. 6

Answer: C



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24. Many transplanted seedling may not survive because

- A. Damage to root hairs
- B. Damage to leaves
- C. Change in soil organisms
- D. Nonavailability of required minerals

Answer: A



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25. At 0 degree C soil temperature the rate of water absorption

A. Increases

B. Not effected

C. Derreases

D. Appreciable

Answer: C



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26. Hydroponics is growing plants in

A. Solution of mineral nutrients

B. Phytotron

C. Liquid culture medium

D. Solid culture medium

Answer: C



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27. Red drop is

- A. Drop in oxygen yield
- B. Drop is quantum yield
- C. Drop in organic yield
- D. Drop in photosynthetic yield

Answer: D



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28. In C_4 plants, Calvin cycle enzymes are present in

- A. Mesophyll chloroplasts

B. Bundle sheath chloroplasts

C. Guard cell chloroplasts

D. Epidermal chloroplasts

Answer: A



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29. Quantosomes occur in

A. Chloroplasts

B. Mithochondria

C. Nucleus

D. Lysosomes

Answer: A



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30. *RuBisCO* content of chloroplast is

A. 0.2

B. 0.05

C. 0.11

D. 0.16

Answer: D



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31. Photoperiodism is due to hormone

A. Cytokinins

B. Gibberellins

C. Auxin

D. Florigen

Answer: D



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32. Movement of auxin is

A. Centripetal

B. Basipetal

C. Acropetal

D. Both (B)and (C)

Answer: B



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33. Hormone responsible for ageing is

A. GA

B. IAA

C. ABA

D. Cytokinin

Answer: C



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34. Development of fruit without fertilisation is

A. Parthenogenesis

B. Parthenocarpy

C. Apospory

D. Apogamy

Answer: B



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35. Direction of light is detected by

A. Phytochrome

B. Amyloplants

C. Carotenoids

D. Plant receptors

Answer: C



Watch Video Solution

36. Movements in *Mimosa pudica* are due to turgor changes in

A. Pulvinus and pulvinnules

B. Pinna and pinnules

C. Leaf and leaflets

D. Petiole and rachis

Answer: A



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37. The surface of nerve fibres bear narrow areas called

A. Schwann cells

B. Schwann nodes

C. Nissl granules

D. Nodes of Ranvier

Answer: D



Watch Video Solution

38. Granulocytes are produced in

- A. Liver
- B. Bone marrow
- C. Spleen
- D. None of these

Answer: B



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39. Lamina propria is a layer of

- A. Reticular connective tissue
- B. Fibrous connective tissue
- C. Adipose connective tissue
- D. Fluid connective tissue

Answer: A



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40. In Rabbit sweat glands are present in

(a) Near the eyes

(b) The digits

(c) The lips

(d) None of these

A. Near the eyes

B. The digits

C. The lips

D. Noen of these

Answer: C



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41. Production of gastro-intestinal secretions and movement soon after ingestion of food are brought about by

- A. Central nervous system
- B. Sympathetic nerous system
- C. Parasympathetic nervous system
- D. Peripheral nervous system

Answer: C



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42. Beri-beri is debility due to deficiency of

(a) Biotin

(b) Thiamine

(c) Riboflavin

(d) Nicotinamide

A. Biotin

B. Thiamine

C. Riboflavin

D. Nicotinamide

Answer: B



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43. The three secretion meeting the food in small intestine are

- A. Bile, pancreatic juice and intestinal juice
- B. Pancreatic juice, intestinal juice and gastric juice
- C. Bile, pancreatic juice and gastric juice
- D. Bile, gastric juice and saliva

Answer: A



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44. Chameleon belong to

A. Amphibia

B. Aves

C. Mammalia

D. Reptilia

Answer: D



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45. Tidal volume in human beings is

A. 100 ml

B. 1500 ml

C. 500 ml

D. 4.5 liters

Answer: C



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46. Mammalian heart is

A. Neurogenic

B. Myogenic

C. Digenic

D. None of the above

Answer: B



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47. Blood is

A. Alkaline

B. Acidic

C. Neutral

D. None of the above

Answer: A



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48. Function of SA node is

A. Muscular pain

B. Contraction of lungs

C. Uricotelic

D. None of the above

Answer: C



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49. Man is

A. Ammpmptelic

B. Ureotelic

C. Uricotelic

D. None of the above

Answer: B



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50. The kidneys not only remove the waste products from the blood but also play a very important role in maintaining

A. Equilibrium of the body

B. Temperature of the body

C. Constant composition of the blood

irrespective of nature of the food or fluid

intake

D. Constante blood pressure

Answer: C



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51. Which one is an accessory excretory organ

A. Liver

B. Stomach

C. Intestine

D. Heart

Answer: A



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52. Bone formed by the ossification of tendon is called

- A. Replacing bone
- B. Sesamoid bone
- C. Investing bone
- D. None of the above

Answer: B



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53. Tela chorodea is the term used for

- A. Fused piamater and grey mater
- B. The middle coat of eye
- C. Epithalamus and piamater fused
- D. None of the above

Answer: C



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54. Which cells do not divide after birth ?

A. Nerve cells

B. Germ cells

C. Muscle cells

D. Osteocytes

Answer: A



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55. Organs of Ruffini are receptors of

A. Cold

B. Pressure

C. Heat

D. Touch

Answer: C



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56. Sour taste is perceived on the tongue at

A. Tip

B. Sides

C. Upper surface of front half

D. Back

Answer: B



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57. An organ where a hormone shows its effect is called

- A. Effector
- B. Target
- C. Initiator
- D. Terminator

Answer: B



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58. Spirulina belongs to kingdom

A. Monera

B. Protista

C. Fungi

D. Plantae

Answer: A



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59. Gestation period of Rat is

A. (a) 5 weeks

B. (b) 4 weeks

C. (c) 3 weeks

D. (d) 2 weeks

Answer: C



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60. The fertilisation in mammals including human beings takes place in

A. Vestibule

B. Vagina

C. Fallopian tubes

D. Uterus

Answer: C



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61. Vitelline membrane is a

A. Primary egg membrane

B. Secondary egg membrane

C. Tertiary egg membrane

D. None of these

Answer: A



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62. Vas deferens starts from which part of epididymis ?

A. Cauda epididymis

B. Caput epididymis

C. Corpus epididymis

D. Rete tesis

Answer: A



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63. Mammals can regenerate

A. Brain

B. Liver

C. Lung

D. Urinary bladder

Answer: B



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64. Gense representing traits of antibiotic resistance occur in bacteria over

A. Nucleoid

B. Plasmid

C. Mesosome

D. Both B and C

Answer: B



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65. The experimental material used by Hershey and Chase for proving that DNA controls heredity was

- (a) Escherichia coli
- (b) Salmonella typhimurium
- (c) T2 phage
- (d) TMV

A. Escherichia coli

B. Salmonella typhimurium

C. T(2) phage

D. TMV

Answer: C



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66. Who is called father of modern embryology

A. Ernst Haeckel

B. Aristotle

C. Von Baer

D. Dollo

Answer: C



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67. The basic cause of variations is

- A. Mutations
- B. Out crossing
- C. Incrossing
- D. Recombinations

Answer: A



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68. Proteins percentage present in egg is

A. 20.1

B. 45

C. 12.9

D. 16

Answer: C



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69. *Trichomonas vaginalis* is

A. Virus

B. Chlamydia

C. Bacterium

D. Protozoan

Answer: D



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70. Cryosurgery is resorted to

- A. Crush gall bladder stones
- B. Destroy cancerous tumours
- C. Warts and tumours
- D. In coronary bypass

Answer: C



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71. Anatomic barrier to disease is

- A. Skin
- B. Mucouse membrane

C. Mucus and cilia

D. All the above

Answer: D



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72. Number of lymphocytes present in a healthy human is

A. 1 trillion

B. 100 billion

C. 10 trillion

D. 100 trillion

Answer: A



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73. In female genital tract, sperm capacitation is brought about by

- A. Hyaluronic acid
- B. Removal of membrane fatty acids
- C. Prostaglandins
- D. Oxytocin

Answer: B



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74. In the ear cockle disease of Wheat, the pathogen is

- A. Soil borne
- B. Seed borne
- C. Air borne
- D. Water borne

Answer: B



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75. Incidence of STDs and AIDS is highest in age group of

A. 9-14 years

B. 15-24 years

C. 25-35 years

D. 35-50 years

Answer: B



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76. Cynophobia is fear of

A. Open sky

B. Dogs

C. Darkness

D. Height

Answer: B



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77. Acne in adolescents develop over

A. Face

B. Back

C. Chest

D. All the above

Answer: D



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78. Critically endangered animal- species
belonging to India is

A. 31

B. 18

C. 44

D. 109

Answer: B



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79. A sacred plant is

A. *Ocimum basilicum*

B. *Ficus bengalensis*

C. *Prosopis cineraria*

D. Aloe vera

Answer: C



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80. Biodiversity is determined by :

A. Number of individuals in an area

B. Species richness

C. Evenness

D. Both B and C

Answer: D



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81. A living fossil is

A. Coelacanth

B. Limulus

C. Sphenodon

D. All the above

Answer: D



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82. Which wading bird is omnivorous

A. Flamingo

B. King Fisher

C. Grey Heron

D. None the above

Answer: A



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83. Egg laying mammals are mostly native of

A. India

B. Australia

C. Africa

D. Arabia

Answer: B



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84. A force that acts against maximum population growth is

- A. Population Pressure
- B. Carrying capacity
- C. Saturation point
- D. Environment resistance

Answer: D



Watch Video Solution

85. Pheromone is

- A. Product of endocrine gland
- B. A protein
- C. mRNA
- D. Used for animal communication

Answer: D



Watch Video Solution

86. Startification is useful in

- A. Better use of resources
- B. Accommodation of larger number of species
- C. Modification of environment
- D. All the above

Answer: D



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87. The trophic level of lion in a forest ecosystem is:

A. T_3

B. T_2

C. T_4

D. T_1

Answer: C



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88. Gas being produced by paddy fields and involved in global warming is

A. Chlorine

B. Methane

C. CO(2)

D. H(2)S

Answer: B



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89. An inexhaustible nonconventional universal source of energy is

A. Wind power

B. Soil fertility

C. Wildlife

D. All the above

Answer: A



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90. In Kyoto protocol, the major nations agreed to reduce emission of green house gases by

A. 2008

B. 2010

C. 2012

D. 2018

Answer: C



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91. Lions are found in

- A. Western Ghats
- B. Corbett National Park
- C. Forests of Madhya Pradesh
- D. Gir forest

Answer: D



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92. Protein found in eye lens is

A. Collagen

B. Rhodopsin

C. Crystallin

D. Opsin

Answer: C



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93. ABO blood grouping in humans is an example of

- A. Polygenic inheritance
- B. Multiple allelism
- C. Epistasis
- D. Pleiotropic inheritance

Answer: D



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94. Punnet square is used to know

- A. Outcome of a cross
- B. Probable result of a cross
- C. Types of gametes
- D. Result of meiosis

Answer: B



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95. Root pocket occurs in

A. Maize

B. pandanus

C. Banyan

D. Water Hyacinth

Answer: D



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96. In *Amorphophallus*, vegetative multiplication occurs through

A. Bulbils

B. Rhizome

C. Corn

D. Offset

Answer: C



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97. Ptyxis is

A. Arrangement of leaves on the stem

B. Arrangement of leaves in the bud

C. Folding of lamina in bud

D. Both B and C

Answer: C



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98. Inflorescence of Wheat is

- A. (a) Spike of spikelets
- B. (b) Panicle of spikelets
- C. (c) Spike
- D. (d) Receme of spikes

Answer: A



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99. Which one of the following is related type

- A. Catkin and hypanthodium
- B. Raceme and cyathium
- C. Corymb and umbel
- D. Verticillaster and spikes

Answer: C



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100. Basal placentation occurs in an ovary which is

A. Unilocular

B. Bilocular

C. Multilocular

D. Lateral

Answer: A



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1. Provirus is the name of

A. Virion

B. Primitive virus

C. Free DNA

D. Integrated viral genome

Answer: D



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2. The term water potential was coined by

A. Sayre

B. Von Mohl

C. Lloyd

D. Slatyer and Taylor

Answer: D



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3. Water potential and osmotic potential of pure water are respectively

A. Zero and zero

B. 100 and zero

C. 100 and 100

D. zero and 100

Answer: A



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4. An antitranspirant is

A. Phenyl mercuric acid

B. Abscisic acid

C. Salicylic acid

D. All the above

Answer: D



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5. Phytohormone connected with closing of stomata is

A. ABA

B. Kinetin

C. GA

D. IBA

Answer: A



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6. Chlorosis results from deficiency of

A. Chlorine

B. Sodium

C. Calcium

D. Magnesium

Answer: D



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7. The first stable compound in C_4 plants is

A. Starch

B. Oxalo-acetic acid

C. Sugar

D. Malic acid

Answer: D



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8. Decline in quantum yield was noticed by Emerson at a wavelength of

A. 400 -450 nm

B. 600 -650 nm

C. 650 - 680 nm

D. More than 680 nm

Answer: D



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9. Immediate donor of electrons to PS I is

A. Ferredoxin

B. FeS centre

C. Plastoquinone

D. Plastocyanin

Answer: D



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10. The family in which many plants are C_4 type

A. Papaya

B. Pea

C. Potato

D. Maize/corn

Answer: D



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11. Which initiated study in population genetics

A. Hardy - Weinberg law

B. Lamarckism

C. Darwinism

D. Palaeontology

Answer: A



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12. Photoperiodism was discovered by

A. Van Overbeek

B. Lysenko

C. Garner and Allard

D. Boysen- Jensen and Paal

Answer: C



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13. The pigment involved in red - far red light interconversion is

- A. Carotene
- B. Phytochrome
- C. Cytochrome
- D. Lycopene

Answer: B



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14. Bakane disease of Rice is due to

A. NAA

B. 2 - 4D

C. IAA

D. GA

Answer: D



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15. Movement caused by injury is

A. Traumtropism

B. Rheotropism

C. Traumonasty

D. Rheonasty

Answer: A



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16. Both nyctinasty and thigmonasty are observed
in

A. Drosera

B. Mimosa

C. Utricularia

D. Cuscuta

Answer: A



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17. The main difference between bone and cartilage is of

(a) Mineral salts

(b) Blood vessels

(c) Lymph vessels

(d) Haversian canals

A. Mineral salts

B. Blood vessels

C. Lymph vessels

D. Haversian canals

Answer: D



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18. The diameter of RBC is

A. $10 - 12\mu m$

B. $2 - 3\mu m$

C. $7 - 8\mu m$

D. None of these

Answer: C



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19. Meissner's plexus of stomach is present in between

A. Oblique muscle and submucosa

- B. Oblique muscles and circular muscles
- C. Circular muscles and longitudinal muscles
- D. Longitudinal muscles and serosa

Answer: A



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20. Red pulp of spleen is red in colour. It is due to

- A. Presence of RBC(s)
- B. Network of blood capillaries
- C. Presence of haemoglobin

D. All of above

Answer: A



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21. Uvula is part of

A. Tongue

B. Soft palate

C. Hard palate

D. Epiglottis

Answer: B



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22. Trypsinogen is converted into active trypsin by the action of:

- A. Cholecystokinin
- B. Enterocrinin
- C. Enterokinase
- D. Secretin

Answer: C



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23. Stomach is the site for digestion mainly of

A. Fat

B. Protein

C. Carbohydrate

D. All of above

Answer: B



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24. In human beings, CO_2 concentration in the inspired and expired air is respectively

A. 0.03% and 5.3%

B. 0.4% and 5.0%

C. 0.04% and 3.0%

D. 0.03% and 4.0%

Answer: D



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25. Proteomics is study of

A. Protobionts

B. Embryogenesis

C. Venereal diseases

D. Proteins synthesised by a genome

Answer: D



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26. Leucopaenia is the condition in which

A. The total number of leucocytes decreases

below 4500/cu mm

- B. The total number of leucocytes increases above 6000/cu mm
- C. Bone marrow is destroyed
- D. Formation of leucocytes stops

Answer: a



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27. Blood does not transport O_2 in

- A. Man
- B. Frog

C. Cockroach

D. Pheretima

Answer: C



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28. Stethoscope was invented by

A. (a) Waksman

B. (b) Koch

C. (c) Laennec

D. (d) Jenner

Answer: C



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29. Certain carbonates and phosphates are removed by

A. Skin

B. Liver

C. Kidneys

D. None of the above

Answer: C::D



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30. Doris is

A. Shipworm

B. Sea Lemon

C. Sea Hare

D. Oyster

Answer: B



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31. Renin is released by

- (a) Cortical nephron
- (b) Collecting duct
- (c) Juxtaglomerular apparatus
- (d) Pelvis

A. Cortical nephrons

B. Collecting duct

C. Juxtaglomerular apparatus

D. Pelvis

Answer: C



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32. Collar bone is known as

- A. Scapula
- B. Coracoid
- C. Petella
- D. Clavicle

Answer: D



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33. Premotor areas occurs is

- A. Frontal lobe
- B. Parietal lobe
- C. Occipital lobe
- D. Temporal lobe

Answer: A



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34. Myelin sheath is the covering of

A. Muscle cell

B. Axon

C. Blood vessels

D. Osteocyte

Answer: B



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35. Otolith is formed of

A. carbohydrate

B. Magnesium

C. Lipid

D. Calcium carbonate

Answer: D



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36. Jacobson's organ is related to

A. Touch

B. Smell

C. Sight

D. Hearing

Answer: B



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37. STH (somatotrophic hormone) is also known as

A. TSH

B. LTH

C. ADH

D. GH

Answer: D



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38. The hormone which darkens the skin of frog is

A. Insulin

B. Oestrogen

C. Melanocyte stimulating hormone

D. Noen of these

Answer: C



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39. Progesterone is secreted by

- A. Corpus luteum
- B. Corpus albicans
- C. Leydig's cells
- D. Graafian cells

Answer: A



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40. In a frog, the connection between brain and spinal cord is severed. The leg of such a frog is picked by a sharp needle. Then it is most likely that the animal will

- A. Die immediately
- B. Start dividing
- C. Remain undivided
- D. None of these

Answer: B



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41. Foetus developing in the genital tract without getting nourishment from the mother is a case of

- A. Vivipary
- B. Ovipary
- C. Ovo-vivipary
- D. None of these

Answer: C



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42. Human placenta is

A. Haemochorial

B. Syndesmochorial

C. Yolk sac

D. Haemo-endothelial

Answer: A



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43. Maximum growth in human foetus occurs at the age of

- A. Fourth month
- B. Two months
- C. Six months
- D. Eight months

Answer: A



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44. Which is called soluble RNA

A. (a) tRNA

B. (b) mRNA

C. (c) rRNA

D. (d) snRNA

Answer: A



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45. Number of of codons in a genetic triplet code is

A. 4

B. 16

C. 32

D. 64

Answer: D



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46. In land animals blood vascular system has

- A. Single circulation
- B. Venous heart
- C. Arterial heart
- D. Arteriovenous heart

Answer: D



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47. The hominid fossil 'Lucy' belongs to

- A. Ramapithecus
- B. Australopithecus
- C. Dryopithecus
- D. Aegyptopithecus

Answer: B



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48. Which does not occur in cell membrane

- A. Cholesterol
- B. Phospholipids

C. Glycoprotein

D. Proline

Answer: D



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49. the most famous pesticide of the world is

A. BHC

B. DDT

C. Baygon

D. Flit

Answer: B



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50. After ELISA positive test, AIDS is confirmed through

- A. Western blot analysis
- B. Dot blot technique
- C. Southern blot technique
- D. Northern blot technique

Answer: A



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51. The most abundant antibodies are

A. IgG

B. IgA

C. IgE

D. IgM

Answer: A



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52. Phagocytes of innate immunity are

- A. Neutrophils
- B. Macrophages
- C. Monocytes
- D. All the above

Answer: D



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53. Grains of major cereals and millets lack amino acids

- A. Methionine and cysteine
- B. Methionine and lysine
- C. Tryptophan and cysteine
- D. Lysine and tryptophan

Answer: D



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54. Lysine rich Maize variety is

- A. Protina
- B. Rattan

C. Shakti

D. All the above

Answer: D



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55. Replacement level is the number of children a couple must produce to replace themselves so as to maintain population at zero growth level. The value of replacement level for developed countries is

is

A. 2

B. 2.1

C. 2.3

D. 2.7

Answer: B



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56. Permanent entry of individual into a population is

A. Migration

B. Emigration

C. Immigration

D. Replacement

Answer: C



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57. Infant mortality is related to number of deaths per thousands in between

A. Birth and 1 year

B. Birth and 3 years

C. 2-5 years

D. 3 - 6 years

Answer: A



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58. Number of biogeographical regions of India is

A. 8

B. 10

C. 16

D. 18

Answer: B



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59. A bacterium which has been genetically modified to control pollution is

A. Pseudomonas

B. Xanthomonas

C. Nitrosococcus

D. Trichoderma

Answer: A



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60. A weed, which has invaded many forests lands of India is

(a) *Parthenium hysterophorus*

(b) *Chenopodium alba*

(c) *Lantana camara*

(d) *Eichhornia crassipes*

A. *Parthenium hysterophorus*

B. *Chenopodium alba*

C. *Lantana camara*

D. *Echhornia crassipes*

Answer: C



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61. Urinary bladder is absent in

A. Fishes

B. Sankes

C. Crocodiles

D. All the above

Answer: D



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62. Archaeopteryx lived during

(a) Cretaceous

(b) Triassic

(c) Permian

(d) Jurassic

A. Cretaceous

B. Triassic

C. Permian

D. Jurassic

Answer: D



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63. Bat , Whale and Human share the following trait

A. Hair

B. Placenta

C. Nocturnal

D. Position of mammary glands

Answer: B



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64. Population means

- A. All the animals of a place
- B. All the animals and plants found in an area
- C. Human beings living in an area
- D. Animals/plants of a species living in a specific area

Answer: D



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65. Migration is

A. Outward movement of individuals

B. Inward movement of individuals

C. Two -way departure and return of all the
individuals

D. Starvation based mortality

Answer: C



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66. Mimicry is useful for

A. Concealment

B. Protection

C. Predation

D. Both B and C

Answer: A



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67. In biotic community, the most important factor for survival of an animal is

- A. Day length
- B. Soil moisture
- C. Green food
- D. Predators

Answer: C



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68. Ozone layer is located in

- A. Ionosphere
- B. Thermosphere
- C. Stratosphere
- D. Troposphere

Answer: C



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69. Shifting cultivation in India is called

A. Sawani

B. Jhum

C. Hardi

D. All the above

Answer: B



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70. Non biodegradable pollutants are extremely harmful because they

A. Undergo biomagnification

B. Remain in position for long

C. Do not get recycled

D. Both B and C

Answer: A



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71. Extinction of numerous wild animals is due to

A. Hunting

B. Deforestation

C. Overcrowding

D. Scarcity of food

Answer: B



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72. Allele is

- A. Segment of gene
- B. Form of a gene
- C. Special kind of gene
- D. A mutation

Answer: B



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73. Excretory product of spider is

A. Uric acid

B. Urea

C. Ammonia

D. Guanine

Answer: D



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74. A child of O-group has B-group father. The genotype of father will be

A. $I^O I^O$

B. $I^B I^B$

C. $I^A I^B$

D. $I^B I^O$

Answer: D



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75. Phtosynthetic roots are reported from

A. Jussiaea

B. Rhizophora

C. Bryophyllum

D. Tinospora

Answer: D



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76. Phylloclades are

A. Leaves

B. Flowers

C. Stems

D. Both leaves and stem

Answer: C



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77. Stipules are modified into spines in

A. Shoe Flower

B. Cotton

C. Zizyphus

D. Dalbergia

Answer: C



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78. Which one of the following mammalian cells is not capable of metabolising glucose to carbon-dioxide aerobically ?

A. RBCs

B. WBCs

C. Liver cells

D. Kidney cells

Answer: A



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79. inflorescence with unbranched axis is called

A. Compound racemose

B. Compound corymb

C. Simple racemose

D. Verticillaster

Answer: C



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80. A flower which can be divided into two exactly equal halves by any vertical planes passing through centre is

- A. Zygomorphic
- B. Actinomorphic
- C. Perfect
- D. Regular

Answer: A



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81. Stamens of Jowar/Grass are

A. Dorsifixed

B. Versatile

C. Basifixed

D. Adnate

Answer: B



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82. A fruit having differentiation of epicarp, mesocarp and stony endocarp is

- A. Berry
- B. Drupe
- C. Sycosis
- D. sorosis

Answer: B



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83. Which is not essential for seed germination in most cases ?

A. Light

B. Oxygen

C. Suitable temperature

D. Moisture

Answer: A



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84. Most of the mutations remain unexpressed because they are

- A. Too small
- B. Very significant
- C. Very few
- D. Mostly recessive

Answer: D



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85. Linkage in *Drosophila* was first discovered

A. Bridges

B. Mendel

C. Bateson and Punnet

D. Morgan

Answer: D



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86. Genes located on X- chromosomes are known as

- A. Sex influenced
- B. Sex limited
- C. Sex linked
- D. Maternal genes

Answer: C



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87. In Neurospora both recessive and dominant alleles express their effect because

- A. Two genes control each character
- B. There are two alleles for each character
- C. The organism contains only one allele for a gene
- D. Each gene has only one allele

Answer: C



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88. First triplet codon to be deciphered was

A. UUU

B. AAA

C. CTA

D. CCC

Answer: A



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89. Energy for activation of amino acids during proteins synthesis comes from

A. ATP

B. GTP

C. CTP

D. UTP

Answer: A



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90. Flavr Savr is genetically modified

A. Cotton

B. Rice

C. Tomato

D. Potato

Answer: C



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91. Gene gun can introduced genes into cells with the help of

(a) Plasmids

(b) Cosmids

(c) Microscopic pellets

(d) Phagemids

A. Plasmids

B. Cosmide

C. Microscopic pellets

D. Moringa

Answer: C



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92. Censer mechanism of seed dispersal is found in

A. Bombax

B. Alstonia

C. Poppy

D. Moringa

Answer: C



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93. Zygote of *Capsella bursa-pastoris* undergoes

A. Longitudinal division

B. Equal transverse division

C. Unequal transverse division

D. Oblique division

Answer: C



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94. In polygonum type of embryo sac, the cells are

- A. Haploid
- B. Diploid
- C. Both A and B
- D. Poiyploid

Answer: C



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95. TIP is

- A. Tuber inducing protein
- B. Tuber inducing principle
- C. Tumour inducing protein
- D. Tumour inducing principle

Answer: D



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96. The enzymes required to obtain protoplast from a plant cell are

- A. Cellulase and proteinase
- B. Cellulase and pectinase
- C. Cellulase and amylase
- D. Amylase and pectinase

Answer: B



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97. Photolysis of a molecule of water yeilds

A. 4 electrons and 4 protons

B. 2 electrons and 2 protons

C. 2 electrons and 4 protons

D. 4 electrons and 2 protons

Answer: B



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98. Epidermal outgrowths are know as

A. Trichomes

B. Stomata

C. Prickles

D. Spines

Answer: A



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99. Companion cells are usually seen associated with

(a) Fibres

(b) Tracheids

(c) Vessels

(d) Sieve cells

A. Fibres

B. Tracheids

C. Vessels

D. Sieves

Answer: D



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100. epistomatic leaf is

A. Nymphaea

B. Nelumbo

C. Victoria

D. All the above

Answer: D



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Model test paper-4

1. AUG is

(a) Ople

(b) Amber

(c) Ochre

(d) Initiation codon

A. Ople

B. Amber

C. Ochre

D. Initiation codon

Answer: D



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2. Digestion is completed in

A. Duodenum

B. Ileum

C. Stomach

D. Cloaca

Answer: B



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3. Heterocrine gland connected with digestive system is

A. Liver

B. Pituitary

C. Testis

D. Pancreas

Answer: D



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4. Lungs have a large number of narrow tubes called

A. Alveoli

B. Bronchioles

C. Bronchi

D. Alveolar ducts

Answer: B



Watch Video Solution

5. Respiration rate is lowest during

A. Running

B. Playing

C. Eating

D. Sleeping

Answer: D



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6. Lymph is without

(a) Leucocytes

(b) Plasma

(c) Erythrocytes

(d) None of the above

A. Leucocytes

B. Plasma

C. Erythrocytes

D. None of the above

Answer: C



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7. thrombokinase is produced in

- A. RBC
- B. WBC
- C. Blood vessels
- D. Blood clotting

Answer: D



[Watch Video Solution](#)

8. Hardening of the arteries due to deposition of cholesterol on arterial wall is termed as:

A. Atherosclerosis

B. Thrombosis

C. Stenosis

D. Rhinitis

Answer: A



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9. The smallest functional unit of kidney is

- A. Nephron
- B. Collecting tube
- C. Glomerulus
- D. Bowman's Capsule

Answer: A



Watch Video Solution

10. The collecting ducts in the kidney converge to form

A. Pyramid

B. Calyx

C. Pelvis

D. Column of Bertin

Answer: A



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11. For formation of urea which one of the following is required along with ammonia

- A. Arginase, CO_2 and O_2
- B. Arginase, CO_2 and water
- C. Aspartate, CO_2 and water
- D. Aspartate, CO_2 and O_2

Answer: B



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12. Number of bones in skull of human being is

A. 10

B. 18

C. 23

D. 29

Answer: C



Watch Video Solution

13. The function of choroid plexus is

- A. To produce lymph
- B. To produce blood
- C. To produce cerebrospinal fluid
- D. To produce endolymph

Answer: C



Watch Video Solution

14. number of female flowers in a cyathium is

- A. 1
- B. 3

C. 5

D. Numerous

Answer: A



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15. Maximum tactile receptors in mammals are located on

A. Body

B. Face

C. Limbs

D. Head

Answer: B



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16. The receptor organs for sense of hearing are located in

A. Cochlea

B. Utriculus

C. Sacculus

D. Middle ear

Answer: A



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17. Pars nervosa is a part of

A. Brain

B. Spinal cord

C. Pituitary gland

D. Ovary

Answer: C



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18. Undersecretion of thyroxine/hypothyroidism in children causes

- A. Acromegaly
- B. Cretinism
- C. Goitre
- D. Addison's disease

Answer: B



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19. A pair of stink gland is found in

- A. 4 -5 terga
- B. 4 - 5 sterna
- C. 5 - 6 terga
- D. 5 - 6 sterna

Answer: C



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20. Eggs from ovary are released in

A. Oviduct

B. Kidney

C. Ureter

D. Coelom

Answer: D



Watch Video Solution

21. Morphogenetic movements occurs in

A. Cleavage stage

B. Morula

C. Blastula

D. Gastrula

Answer: D



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22. A mature sperm has

A. A pair of flagella

B. A nucleus, an acrosome, and a centriole

C. A nucleus, an acrosome, a pair of centrioles

D. A nucleus, an cromosome , a pair of centrioles
and a tail

Answer: D



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23. As compared to whole body, the head of new born human body is

A. One third

B. One half

C. One fifth

D. One fourth

Answer: D



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24. mRNA coded language is known as

- (a) Cryptogram
- (b) Cryptoanalysis
- (c) Cryptogram
- (d) Codogens

A. Cryptogram

B. Cryptoanalysis

C. Cryptogram

D. Codogens

Answer: A



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25. The term triplet genetic code were coined by

A. Watson and Crick

B. Nirenberg

C. Gamow

D. Conrat

Answer: C



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26. Origin of seed in land plants occurred about

A. 160 million years ago

B. 240 million years ago

C. 285 million years ago

D. 345 million years ago

Answer: D



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27. Somatic hybridisation is achieved through ?

A. Grafting

B. Protoplast fusion

C. Conjugation

D. Recombinant DNA technology

Answer: B



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28. Norin -10 gene is famous for

- A. Gigas effect
- B. Dwarfing effect
- C. Early maturation effect
- D. Aromatic effect

Answer: B



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29. Urea derivative triazines are used as

- A. Insecticides
- B. Herbicides
- C. Nematocides
- D. Rodenticides

Answer: B



Watch Video Solution

30. *Haemophilus ducryei* causes

A. AIDS

B. Gonorrhoea

C. Chancroid

D. Syphilis

Answer: C



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31. Acquired immunity is also called

(A) Adaptive immunity

(B) Specific immunity

(C) Nonspecific immunity

(D) Both A and B

A. Adaptive immunity

B. Specific immunity

C. Nonspecific immunity

D. Both A and B

Answer: D



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32. Number of proteins belonging to complement system is

A. 30

B. 24

C. 18

D. 6

Answer: A



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33. Which of the following is not correct about plant introduction ?

- A. They give us new crops
- B. They give us new varieties
- C. There is risk of entry of disease, etc. in into the country
- D. Quarantine is not necessary

Answer: D



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34. common tick fever is caused by

- A. Protozoan Babesia
- B. Protozoan Eimeria
- C. Bacterium Corynebacterium
- D. Tapeworm

Answer: A



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35. Three lobed nuclei occur in

A. Monocyte

B. Eosinophil

C. Neutrophil

D. Basophil

Answer: D



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36. Mental disorder in which the patient is preoccupied with body functions and sensations

A. Hypochondria

B. Neurasthenia

C. Post - traumatic stress

D. Attention - deficit disorder

Answer: A



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37. Demographic transition is achieved when there

is :-

A. (A) High birth rate and high but fluctuating

death rate

- B. (B) High birth rate and decline in death rate
- C. (C) Decline in both but more in death rate
- D. (D) Low death rate and low fluctuating birth rate

Answer: D



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38. Number of threatened species in 2000 Red List is

A. 4175

B. 8198

C. 11096

D. 16241

Answer: C



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39. World Conservation Union maintains

A. Red Data Book

B. Red List

C. Pink List

D. Both A and B

Answer: D



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40. A major cause of mortality of many birds visitors of aquatic habitat is

- (a) Nutrient enrichment
- (b) Lead poisoning
- (c) Salt enrichment
- (d) All the above

A. Nutrient enrichment

B. Lead poisoning

C. Salt enrichment

D. All the above

Answer: B



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41. Vestigial organ of python is :

A. Scales

B. Hind limbs

C. Teeth

D. Nose

Answer: B



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42. National bird of India is

- A. *Pavo cristatus*
- B. *Psittacula eupatoria*
- C. *Streptopelia decaoto*
- D. *Hierococcux varrius*

Answer: A



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43. Endocarp is stony in the fruit of

A. Drupe

B. Poem

C. Berry

D. Amphisarca

Answer: A



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44. synecology is the study of

- A. Human environment of a place
- B. Biotic environment of a place
- C. Abiotic component of a place
- D. Biotic community in relation to environment
of a place

Answer: D



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45. The sum total of the population of the same kind of organisms constitute

A. Colony

B. Genus

C. Community

D. Species

Answer: D



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46. An unrestricted reproductive capacity is called

- A. Birth rate
- B. Biotic potential
- C. Carrying capacity
- D. Fertility

Answer: B



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47. Which one has maximum biomass ?

- A. Temperate forests
- B. Tropical rain forest
- C. Alpine vegetaion
- D. Taiga

Answer: B



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48. Which is not a green house gas ?

- A. Chlorofluorocarbon
- B. Methane

C. Carbon dioxide

D. Hydrogen

Answer: D



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49. Forest Act was enacted in

A. 1952

B. 1963

C. 1927

D. 1988

Answer: C



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50. ODS means

- A. Ozone developing substance
- B. Ozone data source
- C. Ozone depleting substance
- D. Office data secrecy

Answer: C



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51. Percentage land mass in India cover is

(a) 0.33

(b) 0.227

(c) 0.17

(d) 0.19

A. 0.33

B. 0.227

C. 0.17

D. 0.19

Answer: D



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52. Trihybrid ratio is

A. 27:9:9:9:3:3:3:1

B. 27:9:9:6:6:3:3:1

C. 1:6:15:20:15:6:1

D. 36:6:6:6:3:3:3:1

Answer: A



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53. Blood group of a couple are AB and O. The possible blood group of children would be

- A. O group only
- B. AB blood group
- C. A or B group
- D. AB and O group only

Answer: C



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54. Hybrid vigour is mostly due to

- A. Mixing of traits of male and female
- B. Homozygosity in gamete state
- C. Superiority of genes
- D. Heterozygosity

Answer: D



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55. A root is adventitious when it is

- A. Swollen
- B. Growing in marshy places
- C. Formed from plumule
- D. Modified for storage

Answer: C



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56. Heterophylly of Limnophila is

- A. Sobole
- B. Culm

C. Scape

D. Intercalary stem

Answer: B



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57. Synaptic vesicles are :

A. Environmental

B. Adaptive

C. Habitual

D. Both A and B

Answer: D



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58. glumes occur in

- A. Synaptic cleft
- B. Cyton
- C. Presynaptic neuron
- D. Post - synaptic neuron

Answer: C



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59. glumes occur in

A. Spike

B. Spikelet

C. Strobile

D. Spadix

Answer: B



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60. Ligulate corolla found in compositae is

- A. Two lipped
- B. Strap- shaped
- C. Masked
- D. Wheel shaped

Answer: B



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61. The tissue which attaches the ovules inside the ovary is

- A. Funicle
- B. Hilum
- C. Placenta
- D. Chalaza

Answer: C



Watch Video Solution

62. Syconus is the name of

A. Inflorescence

B. Ovary

C. Thalamus

D. Fruit

Answer: D



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63. Vivipary is

A. Seed germination with subterranean cotyledons

B. Seed germination with epiterranean cotyledons

C. Fruit development without pollination

D. Seed germination inside the fruit while attached to the plant

Answer: D



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64. A protective layer around testis is

A. Tunica albuginea

B. Tunica adventitia

C. Tunica media

D. Tunica vasulosa

Answer: A



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65. Balbiani rings occur in

A. Polytene chromosomes

B. Polysomes

C. Heterosomes

D. Lampbrush Chromosomes

Answer: A



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66. Kappa particles make an animal killer when their number in an individual is

A. 60

B. 6

C. 400

D. 150

Answer: C



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67. Centromere is also called

A. Secondary constriction

B. Chromomere

C. Chromocentre

D. Primary constriction

Answer: D



Watch Video Solution

68. The strain Neurospora which grows on minimal media is called

- (a) Autotroph
- (b) Prototroph
- (c) Auxotroph
- (d) Heterotroph

A. Autotroph

B. Prototroph

C. Auxotroph

D. Heterotroph

Answer: B



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69. One gene - one enzyme hypothesis was posulated by

A. Khorana and Nirenberg

B. Beadle and Tatum

C. Bateson and Punnet

D. Bridges

Answer: B



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70. Protein cover of virus is

A. Capsid

B. Virion

C. Viroid

D. Mucopeptide

Answer: A



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71. A drug obtained through genetic engineering and useful for treating infertility is

- A. Calcitonin
- B. Chorionic gonadotropin
- C. Interleukins
- D. Tissue palaminogen activator

Answer: B



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72. Seeds dispersed by wind are

A. Heavy

B. Round

C. Irregular

D. Light

Answer: D



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73. Embrology is

- A. Development of embryo only
- B. Mode of gametopynic formation
- C. Sporogenesis and fertilisation
- D. Sporogenesis, fertilisation and embryo
genesis

Answer: D



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74. Suspensor formed during embryogeny of Sagittaria is

A. 6-10 celled

B. 4-5 celled

C. 1-celled

D. 2- 3 celled

Answer: C



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75. Which of the following cells in plant show totipotency

- A. Sieve tubes
- B. Xylem vessels
- C. Meristem
- D. Cork cells

Answer: C



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76. Which technique can be helpful in over-coming hybridisation barrier

A. Shoot tip culture

B. Embyro rescue

C. Protoplast fusion

D. Both B and C

Answer: D



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77. Epidermis and epiblema are produced from

- (a) Phellogen
- (b) Calyptrogen
- (c) Procambium
- (d) Protoderm

A. Phellogen

B. Calyptrogen

C. Procambium

D. Protoderm

Answer: D



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78. Longest fibres are found in

(a) Jute

(b) Cotton

(c) Sun Hemp

(d) Coir

A. Jute

B. Cotton

C. Sun Hemp

D. Coir

Answer: A



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79. Common between sclerenchyma and collenchyma is

- A. Material transport
- B. Conduction of water and minerals
- C. Providing buoyancy
- D. Providing support

Answer: D



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80. Tulip flowers shows

- A. Photonasty
- B. Thermonasty
- C. Thigmonasty
- D. Hydronasty

Answer: B



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81. Diffuse porpus woods are characterstics of plans growing in

- A. Alpine region
- B. Cold winter regions
- C. Temperate regions
- D. Tropical regions

Answer: D



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82. O.P. of a cell can be measured by

A. Manometer

B. Photometer

C. Calorimeter

D. Plasmolysis

Answer: D



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83. Plasmolysis is due to

A. Exosmosis

B. Endosmosis

C. Osmosis

D. Adsorption

Answer: A



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84. Virus free plants can be generated through -

A. Shoot tip culture

B. Anther culture

C. Protoplast fusion

D. Callus culture

Answer: A



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85. Which of the following is a rapid type of water absorption

- A. Passive absorption
- B. Active absorption
- C. Expenditure of energy
- D. Osmosis

Answer: A



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86. A sulphur containing amino acid is

A. Methionine

B. Asparagine

C. Serine

D. Proline

Answer: A



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87. Photosystem II occurs in

A. Stroma

B. Cytochrome

C. Grana

D. Mitochondrial surface

Answer: C



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88. Which is correct about chlorophylls a and b in leaves of higher plants

- A. Both are present in equal proportion
- B. Chlorophyll a is more than chlorophyll b
- C. Chlorophyll a is less than chlorophyll b
- D. Chlorophyll b is 10 times more than chlorophyll a

Answer: B



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89. *ATP* synthesis during light reaction is

- A. Oxidative phosphorylation

B. Photolysis

C. Photophosphorylation

D. Phosphorylation

Answer: C



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90. C_4 plants differ from C_3 plants with respect to

A. First product

B. Substrate which accepts carbon dioxide

C. Number of ATP molecules consumed

D. All the above

Answer: D



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91. The instrument by which the rate of growth of stem is accurately measured is

Or

Growth in length of a plant can be measured by

A. Auxanometer

B. Potometer

C. Photometer

D. Hygrometer

Answer: A



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92. Size of grapes increases in response to

A. Gibberellin

B. Auxin

C. Cytokinin

D. All the above

Answer: A



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93. From which was kinetin isolated

A. Herring sperm

B. Pine - apple

C. Soyabean

D. Groundnut

Answer: A



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94. Growth substance that stimulates nodule formation in leguminous plants is

A. NAA

B. IAA

C. IBA

D. ABA

Answer: B



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95. Tendrils and twiners come in contact with their support by means of

- A. Nutation
- B. Thigmonasty
- C. Thigmotropism
- D. Anemotropism

Answer: A



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96. Geotropic response of root is due to

A. Always

B. Rarely

C. Mostly

D. Nil

Answer: C



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97. Blood is

A. Acidic

B. Alkaline

C. Nectral

D. Variable

Answer: B



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98. Squamous epithelium occurs in inner lining of

(a) Kidney

(b) Pancreatic duct

(c) Lung alveoli

(d) Liver

A. Kidney

B. Pancreatic duct

C. Lung alveoli

D. Heart

Answer: C



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99. Red and white pulps occurs in

A. Spleen

B. Kidney

C. Liver

D. Lymph nodes

Answer: A



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100. Psammophytes grow on

A. Rocks

B. Sand

C. water

D. Acidic soils

Answer: B



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Model test paper-5

1. Daphnia is

- (a) Water Flea
- (b) Tadpole Shrimp
- (c) Fairy Shrimp
- (d) Clam Shrimp

A. Clam

B. Water Flea

C. Annelid

D. Sponge

Answer: B



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2. Formation of notochord is

A. Neurulation

B. Notogenesis

C. Morulation

D. Blastulation

Answer: B



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3. Autonomy is recored in

A. Legs in crabs

B. Tail of lizards

C. Viscera in holothurian echinoderms

D. All the above

Answer: D



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4. A bacterium grown over medium having radioactive ^{35}S incorporates radioactivity in

A. Carbohydrates

B. Proteins

C. DNA

D. RNA

Answer: B



[Watch Video Solution](#)

5. DNA acts as a template for synthesis of :-

A. DNA

B. RNA

C. Both DNA and RNA

D. Protein

Answer: C



[Watch Video Solution](#)

6. Which are vestigial in humans?

- A. Tail vertebrae
- B. Auricular muscles
- C. Scalp muscles
- D. All

Answer: D



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7. The basis of life is :

A. Nucleic acids

B. Proteins

C. Fatty acids

D. Both A and B

Answer: D



Watch Video Solution

8. The broilers are birds raised for

A. Egg laying females

B. young birds reared for meat

C. Birds raised for breeding

D. Birds raised for both eggs and ment

Answer: B



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9. Organic manure formed by Earthworm is

A. Farmyard manure

B. Vermicompost

C. Compost

D. Green manure

Answer: B



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10. Hormone replacement therapy (HRT) is carried out in case of

A. SCID

B. AIDS

C. Fibrillation

D. Menopausal complication

Answer: D



[Watch Video Solution](#)

11. A nonspecific immunity is

- A. Passive immunity
- B. Active immunity
- C. Innate immunity
- D. Autoimmunity

Answer: C



[Watch Video Solution](#)

12. Interferon is

- A. Killing virus particles
- B. Protecting healthy cells from viral infection
- C. Killing virus infected cells
- D. All the above

Answer: B



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13. Vector for ascariasis is

- A. Female Culex
- B. Female Anopheles
- C. Housefly
- D. None of the above

Answer: D



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14. Rinderpest disease is caused by

- A. Bacillus species
- B. Morbillivirus

C. Theileria

D. None of the above

Answer: B



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15. Attention-deficit behaviour is

A. More common in boys

B. Difficulty in remaining seated

C. Inability to follow instructions

D. All the above

Answer: D



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16. 15% population in developed countries consumes resources out of total

A. 0.85

B. 0.75

C. 0.68

D. 0.62

Answer: A



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17. Infant mortality is related to number of deaths per thousands in between

A. U.S.A.

B. U.K.

C. Sweden

D. Japan

Answer: D



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18. Ecological hotspots present in India are

(a) one

(b) two

(c) three

(d) five

A. One

B. Two

C. Three

D. Four

Answer: B



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19. Number of biosphere reserves in May 2002 was

- A. 217 in 65 countries
- B. 408 in 94 countries
- C. 381 in 74 countries
- D. 449 in 103 countries

Answer: B



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20. Prion consists of

- (a) DNA
- (b) RNA
- (c) Both DNA and RNA
- (d) Protein

A. Protein

B. RNA

C. DNA

D. Both B and C

Answer: A



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21. King Cobra is

A. Naja hunnah

B. Naja naja

C. Vipera russeli

D. Bundarus conerulus

Answer: A



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22. Pneumatic bones, four chambered heart and feathers occur in

(a) Cyclostomata

(b) Aves

(c) Mammalia

(d) Reptilia

A. Cyclostmata

B. Aves

C. Mammilia

D. Reptilia

Answer: B



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23. The stomach of Camel is

- A. Five chambered
- B. Four chambered
- C. Three chambered
- D. Two chambered

Answer: C



[Watch Video Solution](#)

24. Wuchireria belong to phylum

A. Coelenterata

B. Annelida

C. Arthropoda

D. Nemathelminthes

Answer: D



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25. Human population shows

- A. J- shaped growth curve
- B. Z- shaped growth curve
- C. S-shaped growth curve
- D. All the above

Answer: C



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26. Frequency in biotic community is

- A. Abundance
- B. Degree of dispersion

C. Dominance

D. Physiognomy

Answer: B



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27. Which of the following is most stable ecosystem ?

A. Forest

B. Mountain

C. Desert

D. Ocean

Answer: D



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28. What fraction of assimilated energy is used in respiration by the herbivore ?

A. 0.2

B. 0.3

C. 0.4

D. 0.8

Answer: B



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29. "Let no one species encroach over the right and privileges of other species" is the stanza from

- A. Atharva Veda
- B. Kautilya Arthashastra
- C. Isha Upanishad
- D. Bhagvat Gita

Answer: C



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30. Sound becomes hazardous noise pollution at level

- A. Above 30 dB
- B. Above 80 dB
- C. Above 100 dB
- D. Above 120 dB

Answer: B



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31. Chipko moment is concerned with

A. Conservation of natural resources

B. Plant/forest conservation

C. plant breeding

D. Project tiger

Answer: B



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32. Recessive epistasis is shown by

A. Flower colour in Sweet Pea

B. Fruit colour of Summer Squash

C. Coat colour of Mice

D. Shape of comb in poultry

Answer: C



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33. A pleiotropic gene is one which

A. Affects one character

B. Affects more than of another gene

C. Supplements the effect of another gene

D. Requires another gene for expression

Answer: B



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34. 9:6:1 F_2 generation ratio is obtained in case of

A. Polymeric genes

B. Pleiotropic genes

C. Supplementary genes

D. Recessive epistasis

Answer: A



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35. Buttress root are

A. Aerial

B. Underground

C. Aquatic

D. Horizontal

Answer: D



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36. Largest bud is of

A. Cabbage

B. Cauliflower

C. Agave

D. Onion

Answer: A



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37. Ochreate stipules occur in

A. Cruciferae

B. Solanaceae

C. Compositae

D. Polygonaceae

Answer: D



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38. Inflorescence which looks like solitary flower is

A. *Brassica campesteris*

B. *Helianthus annuus*

C. *Hibiscus rosa-sinesis*

D. *Salvia officinalis*

Answer: C



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39. Histones are present in

A. Basic proteins

B. Acidic proteins

C. Neutral proteins

D. Glycoproteins

Answer: A



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40. The condition of stamens being adnate to tepals is

A. Episepalous

B. Epipetalous

C. Epipyllous

D. Synantherous

Answer: C



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41. Anthophore is an internode between

A. Two opposite leaves in spiral phyllotaxy

B. Calyx and corolla

C. Corolla and androecium

D. Androecium and gynoecium

Answer: B



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42. A fruit without seeds is not possible in case of

A. Grape

B. Orange

C. Pomegranate

D. Berry

Answer: C



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43. Aleurone layer is

A. Protection of delicate embryo

B. Enzyme synthesis

C. Transfer of food to cotyledons

D. Transfer of food from cotyledons to embryo

tips

Answer: B



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44. Allosomes are the name of

A. Sex chromosomes

B. Swellings on the chromosomes

C. Chromosomes other than the ones which
determine sex

D. Nucleolus organising regions of
chromosomes

Answer: A



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45. C-value is the characteristic DNA content in a haploid cell of a given species. Earlier it was considered that C-value correlates with organism complexity. However, it is now evident that C-value varies enormously among species and this bears no correlation with the complexity of the organisms . For example, the cells of some salamanders may contain 40 times more DNA than those of humans. Which of the following explains this C-value paradox?

A. Haploid DNA content

B. Diploid DNA content

C. Variable DNA content

D. Small amount of RNA as compared to DNA

Answer: A



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46. The frequency of mutation in a species can be increased by the use of

A. X-rays

B. UV-rays

C. Nitrous acid

D. All the above

Answer: D



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47. Down's syndrome is due to

A. Trisomy

B. Nullisomy

C. Gene mutation

D. Monosomy

Answer: A



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48. The non-sense codons are

A. Adenine

B. Cytosine

C. Uracil

D. Guanine

Answer: C



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49. mRNA in eukaryotes is synthesized on $3' \rightarrow 5'$ strand of DNA in $5' \rightarrow 3'$ direction with the help of

- A. RNA polymerase 3
- B. RNA polymerase 2
- C. RNA polymerase 1
- D. Reverse transcriptase

Answer: B



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50. Lac operon is

- A. Inducer
- B. Co-inducer
- C. Repressor
- D. Co-repressor

Answer: A



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51. The first successful animal cloning Dolly was accomplished by

A. Gregor mendal

B. Ian Wilmut

C. Robert Briggs

D. Thomas King

Answer: B



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52. Winged fruits occur in

A. Lagerstroemia

B. Middle cell

C. Epiblest

D. Suspensor

Answer: D



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53. In monocot embryo the radicle is produced by

A. Lagerstroemia

B. Moringa

C. Colutea

D. Shorea

Answer: B



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54. The innermost wall layer of pollen sac is tapetum. Its function is in

A. Protection

B. Nutrition

C. Dhisence

D. Mechanical strength

Answer: B



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55. The smallest viable unit which can grow, multiply and form a plant in tissue culture is

A. Cerosome

B. Nucleus

C. Cell

D. Tissue

Answer: C



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56. Pollen embryos were discovered by

A. Konar and Natraja

B. Skoog and Miller

C. Guha and Maheshwri

D. Helperian and meristem

Answer: C



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57. Corpus spongiosum occurs in

- A. Mantle of meristem
- B. Central part of meristem
- C. Internal mass of meristem
- D. Mass meristem

Answer: C



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58. Jute of commerce is got from

- A. Primary phloem
- B. Secondary phloem
- C. Secondary xylem
- D. Primary xylem

Answer: B



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59. What is the position of protoxylem in secondary xylem ?

A. Exarch

B. Endarch

C. Mesarch

D. None of the above

Answer: D



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60. Bulliform cells take part in

A. Providing strength to leaves

B. Folding of leaves

C. Drooping leaves

D. Protection of leaves

Answer: B



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61. External protective tissues of plants are (of dicot stem are)

- A. Cork and pericycle
- B. Cortex and epidermis
- C. Pericycle and cortex
- D. Epidermis and cortex

Answer: D



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62. Gum swells up in the water due to

A. Imbibition

B. Diffusion

C. Endosmosis

D. Turgidity

Answer: A



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63. Adding solution to pure water will cause development of

- A. Positive water potential
- B. More positive water potential
- C. More negative water potential
- D. Negative water potential

Answer: D



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64. During inflammation , which of the following is secreted by connective tissue

- A. Heparin
- B. Histamine
- C. Serotonin
- D. Glucagon

Answer: B



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65. Hydathodes occur on

A. Stem

B. Leaves

C. Root tip culture

D. All the above

Answer: B



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66. Plastocyanin contains:

A. Mo

B. Fe

C. Cu

D. Zn

Answer: C



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67. In photorespiration the substrate is

A. Malic acid

B. Oxaloacetic acid

C. Glycolic acid

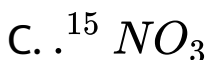
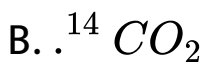
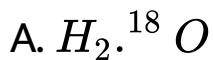
D. PGA

Answer: C



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68. Which helped in confirming that oxygen evolved in photosynthesis comes from water



D. 3H_2O

Answer: A



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69. Plants protect themselves from fungi by producing

A. Phytoalexins

B. Prolectins

C. Protoxins

D. Proteases

Answer: A



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70. Which of the following is least effective in photosynthesis

A. Sunlight

B. Red light

C. Blue light

D. Green light

Answer: D



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71. Fruit and leaf drop at early stages can be prevented by the application of

A. Auxin

B. Ethylene

C. Gibberellin

D. Abscisic acid

Answer: A



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72. Hormone discovered through tissue culture technique is

A. Auxin

B. Cytokinin

C. Gibberellin

D. Abscisic acid

Answer: B



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73. In short day plants, flowering is inhibited by

A. Interruption of dark by white or red light

B. Dark interruption by far red light

C. Dark interruption by red light followed by
far-red light

D. Not possible

Answer: A



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74. Antiauxin used in picking cotton bolls is

A. 2,4-D

B. TIBA

C. NAA

D. Both A and B

Answer: B



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75. Pritoplasmic streaming is

A. Thigmonastic movements

B. Photonasty

C. Movement of locomotion

D. Movement of curvature

Answer: C



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76. Which movement occurs due to external stimulus ?

A. Tropic

B. Nastic

C. Tactic

D. All the above

Answer: D



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77. A free living anaerobic bacterium capable of fixing nitrogen is

A. Azotobacter

B. Nitrobacter

C. Clostridium

D. Beijerinckia

Answer: C



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78. Sarcomere is distance between

A. Z-line to Z-line

B. Two I bands

C. Two A bands

D. Two surfaces of a Z- line

Answer: A



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79. Pars papillaris and pars reticularis are the regions of

- A. Epidermis
- B. Corium
- C. Hypodermis
- D. None of the above

Answer: B



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80. Ducts of Bellini are found in

A. Liver

B. Intestine

C. Medulla oblongata

D. Kindney

Answer: D



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81. Cardiac glands are present in

- A. Pericardium
- B. Myocardium
- C. Endocardium
- D. Stomach

Answer: D



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82. A person with bleeding gums should add to his daily diet

A. Vitamin A

B. Vitamin B

C. Vitamin C

D. Vitamin D

Answer: C



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83. The semi-fluid nearly digested food present in the ileum is termed as

A. Chyle

B. Chyme

C. Succus entericus

D. Bile

Answer: A



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84. Reduction in respiratory surface of lungs due to breakdown of partition in the alveoli is known as

A. Asphyxia

B. Bronchitis

C. Asthma

D. Emphysema

Answer: D



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85. The vital capacity of lungs of an average human is

A. 3000-4500 ml

B. 1500-1800 ml

C. 2000-2500 ml

D. 500-1000 ml

Answer: A



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86. The heart murmur is due to

A. Coronary thrombosis

B. Defective leaky valve

C. Arterial pulse

D. developed atrium

Answer: B



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87. Which of the following is considered as graveyard of RBCs?

A. Liver

B. Spleen

C. Kidney

D. Bone marrow

Answer: B



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88. Pacemaker is situated in the

- A. In the wall of atrium
- B. On the interauricular septum
- C. On interventricular septum
- D. In the wall of left atrium

Answer: A



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89. Rate of glomerular filtration per minute in an adult human being is

A. 125 ml

B. 25 ml

C. 225 ml

D. 425 ml

Answer: A



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90. Which is not produced by anterior pituitary

A. FSH

B. GH

C. Oxytocin

D. Prolactin

Answer: C



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91. Excessive thirst leading to increased consumption of water is

A. Polyurea

B. Glycemia

C. Polyphagia

D. Polydipsia

Answer: D



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92. Elbow joint is

A. Ball and socket joint

B. hinge joint

C. pivot joint

D. Suture joint

Answer: B



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93. Brocas area of speech is present in

A. Temporal lobe

B. Medula oblongata

C. Frontal lobe

D. Diencephalon

Answer: C



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94. Function of cerebro -spinal fluid is

- A. Nourishment
- B. Shock absorption
- C. Collection of waste products
- D. All the above

Answer: D



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95. End bulbs of Krause perceive the sensation of

A. Touch

B. Heat

C. Cold

D. Pressure

Answer: C



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96. Static balance is maintained by

A. Maculae

B. Cristae

C. Organ of Corti

D. Reissner's membrane

Answer: A



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97. What will happen if thyroid is removed from a tadpole ?

- A. The tadpole will grow into dwarf frog
- B. The larva will produce giant frog
- C. It will continue indefinitely in larval stage
- D. The larva will die

Answer: C



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98. Continued secretion of milk is maintained by

A. Prolactin

B. LH

C. Relaxin

D. STH

Answer: A



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99. Human female reaches menopause at the age of about

A. 55-60 years

B. 50-55 years

C. 45-50 years

D. 37-42 years

Answer: C



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100. Memory cells are produced by

A. T-lymphocytes

B. B-lymphocytes

C. Monocytes

D. Neutrophils

Answer: B



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