



BIOLOGY

BOOKS - CENGAGE BIOLOGY (ENGLISH)

ENVIRONMENTAL ISSUES

Exercises

1. Euro-II (April 2000) is the emission norm for reducing

A. O_3 and CO

B. NO_2 and N_2O

C. Sulfur and aromatic hydrocarbons

D. CO_4 and particulate matter

Answer: C



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2. Corrosion of Taj Mahal is due to the conversion of $CaCO_3$ into

A. $CaSO_4$ and $CaNO_3$

B. $Ca(OH)_2$

C. CaO

D. All of these

Answer: A



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3. _____ is highly hazardous to animal health but on plants, this gas does not seem to show adverse effect.

A. CO

B. CO_2

C. SO_2

D. NO_2

Answer: A



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4. The most effective greenhouse gas is

A. CFC

B. CO_2

C. Methane

D. O_2

Answer: A



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5. Acid rain is due to

A. O_3 , PAN

B. Oxides of nitrogen and sulfur

C. Greenhouse effect

D. All of these

Answer: B



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6. Pollutant responsible for causing phaeophytization is

A. SO_2

B. NO_x

C. CO_2

D. Aeroallergens

Answer: A



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7. Greenhouse gases are

A. Absorber of long-wave radiations from
the earth

- B. Transparent to both solar radiations and long-wave radiations from the earth
- C. Absorber of solar radiations for warming the atmosphere
- D. Transparent to emissions from the earth for passage into outer space

Answer: A



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8. Ultraviolet radiations produce the photo oxidant

A. SO_2

B. Flouride

C. CO

D. O_3

Answer: D



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9. Major air pollutant is

A. CO_2

B. N_2

C. CO

D. S

Answer: C



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10. The products resulting from the atmospheric reactions of hydrocarbons and nitrogen oxides in the presence of sunlight are called

- A. Primary pollutants
- B. Secondary pollutants
- C. Tertiary pollutants
- D. Non-pollutants

Answer: B



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11. Which of the following is a reddish-brown pollutant gas?

A. HCL

B. Cl₂

C. CO₂

D. NO₂

Answer: C



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12. Acid rain

(a) Causes necrosis

(b) Convert chlorophyll-a into pheophytin

(c) Responsible for the formation of PAN

A. Only (a) and (b) are correct

B. Only (b) and (c) are correct

C. Only (a) is correct

D. Only (c) is correct

Answer: A



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13. Which is not an effect of global warming?

A. More extreme weather condition

B. Poleward shifting of organism

C. Rise of sea level

D. Good fungal growth in soil.

Answer: D



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14. Which of the Following conference obtained commitments from different countries for reducing overall greenhouse gas emission at a level 5% below 1990 level by 2008-2012?

A. Kyoto Protocol, 1997

B. Earth Summit, Rio-de-Janeiro, 1992

C. Montreal Protocol, 1987

D. Helsinki Declaration, 1989

Answer: A



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15. Which plant has the maximum power of absorbing CO_2 and oxides of nitrogen in a polluted area?

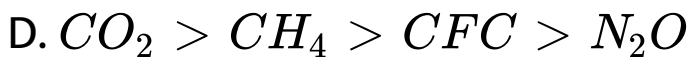
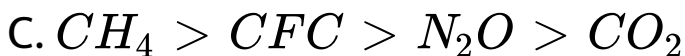
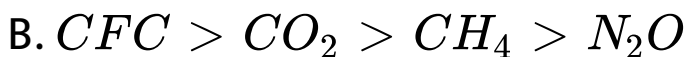
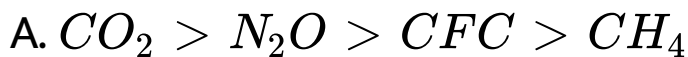
- A. Eucalyptus
- B. Coleus indica
- C. Robinia pseudoacacia
- D. Daucus carota

Answer: C



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16. Arrange CFC , CH_4 , N_2O , and CO_2 in decreasing order according to their contribution in greenhouse effect:



Answer: D



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17. Which is not a natural source of CH_4 in the environment

A. Biomass burning

B. Termites

C. Gut of ruminants

D. Rice fields

Answer: A



18. The controlled aerobic combustion of wastes inside chambers at temperature of $900-1300^{\circ}\text{C}$ is known as

- A. Incineration
- B. Recycling
- C. Pyrolysis
- D. Sanitary dumping

Answer: A



19. Aerosol is suspension of

A. Liquid or solid particles of more than 1 mm

B. Liquid drops in air

C. Liquid or solid particles of less than 1 mm

D. Solid particles in air

Answer: C



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20. Ozone hole was first discovered by

A. Robert Augus

B. Molina

C. Farman

D. Rowland

Answer: C



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21. Which is not an effect of acidic rain in a pond

- A. Increased fungal growth
- B. Decreased insect population
- C. Increased growth of green algae
- D. NO_3 and SO_4 saturation.

Answer: C



22. The smog which is formed at high temperature is

- A. London smog
- B. Classical smog
- C. Los Angeles smog
- D. Sulfurous smog

Answer: C



23. Brown air and gray air is due to the oxides of

A. Sulfur

B. Nitrogen

C. Carbon

D. Phosphorus

Answer: B



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24. Third pollution is

A. Pollution caused by the addition of an undesirable substance in air, water, soil, or land

B. Deterioration in the quality of air, water, soil, etc., due to removal or reduction in the quality of an important or vital ingredient

- C. Ground water pollution due to seepage of minerals, toxic chemicals, and sewage
- D. Landscape pollution caused by throwing of rubbish, wastes, and garbage over land

Answer: D



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25. Which is not a control measure to reduce particulate matter in environment?

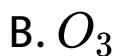
- A. Cyclonic separators
- B. Scrubbers
- C. Effluent treatment
- D. Electrostatic precipitator

Answer: C



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26. A chemical weed in troposphere and protectant in stratosphere is



Answer: C



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27. ganga action plan for controlling pollution
in ganga started in

A. 1985

B. 1981

C. 1987

D. 1989

Answer: A



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28. The presence of 20 or more genera of algae in a water body is an indication of high organic pollution. It is

- A. Water index
- B. Algal diversity index
- C. Pollution index
- D. Algal genus index

Answer: D



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29. The presence of *E. coli* in water indicates

- A. Water is clear
- B. Water is fully polluted
- C. Inorganic pollution
- D. Fecal pollution

Answer: D



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30. Blue-baby syndrome is due to

A. Air pollution

B. Soil pollution

C. Thermal pollution

D. Radioactive pollution

Answer: B



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31. Release of phosphates and nitrates in water bodies like lakes lead to:

A. Nutrient enrichment (eutrophication)

B. Reduced algal growth

C. Increased algal growth

D. Increased growth of decomposers

Answer: C



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32. Soil fertility is depleted due to

A. Pan breaking

B. Terracing

C. Intensive agriculture

D. Contour bunding

Answer: C



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33. Spraying of pesticide is an example of

A. Point source water pollution

B. Diffuse water pollution

C. Both (1) and (2)

D. Pyrolysis

Answer: B



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34. Ecological backlast (ecological bomerang)

is

A. Heat emission due to bomb explosion

- B. Production of useful ecological effect by
a previously useful chemical
- C. Formation of secondary pollutant from
the reaction of primary pollutants
- D. Production of adverse ecological effect
by a previously useful chemical

Answer: D



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35. Minamata disease is caused due to presence of in water.

A. Oil spill in water

B. Arsenic in the atmosphere

C. Industrial waste having mercury in water

D. Organic waste in drinking water

Answer: C



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36. Oil slick causes mass-scale death of fishes due to

- A. Clogging of gills
- B. Disruption of food chain
- C. Non-availability of food
- D. All of these

Answer: A



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37. Wastes may be sealed in concrete-filled drums and discharged to a depth of about 500 m. This specific statement is true for

- A. Radiation pollutants
- B. UV radiation pollutants
- C. Particle pollutants
- D. All radioactive pollutants

Answer: D



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38. Bone cancer is caused by

A. Iodine 127

B. Strontium 90

C. Cesium 137

D. None of these

Answer: B



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39. As a general rule, ionizing radiation is most damaging to

- A. Mature, stable cells
- B. Actively dividing cells
- C. Highly specialized cells
- D. Cells in which food is stored

Answer: B



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40. Volcanic eruptions let out large quantities of

- A. Harmful dust and sulfurous gases
- B. Harmful dust and nitrous gases
- C. Harmful dust and carbonous gases
- D. Harmful dust and phosphorous gases

Answer: C



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41. Painful skeletal deformity called itai-itai is caused due to

A. Cd

B. Hg

C. CO

D. NO_2

Answer: A



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42. Acoustic zoning is related with

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

Answer: B



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43. Montreal Protocol was aimed to

A. Reduce greenhouse gases

B. Limit the production and use of ODS

C. Mitigate climatic change

D. Implement Agenda 21

Answer: B



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44. The Government of India has introduced a concept to work closely with local

communities for protection and management
of forests called

- A. Jhum cultivation
- B. Chipko Movement
- C. Appiko Movement
- D. Joint Forest Management

Answer: D



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45. The National Forest Policy of India has recommended ____ percent forest cover for hilly areas.

A. 67

B. 33

C. 19.4

D. 30

Answer: A



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46. To spread information and help on the practice of integrated organic farming is started by a group of farmers in

A. Haryana

B. Bangalore

C. Delhi

D. Jodhpur

Answer: A



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47. Find the odd one out with respect to e-waste:

A. India

B. Pakistan

C. China

D. America

Answer: D



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48. Minerals, metals, and fossil fuels are which type of resources of energy?

- A. Renewable
- B. Non-renewable
- C. Biodegradable
- D. Degradable

Answer: B



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49. Thermal pollution is caused by

A. Power plants

B. Industries

C. Automobiles

D. All of the above

Answer: D



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50. The addition of any substance to water which leads to change in its physical and chemical characteristics is defined as water pollution. It results in

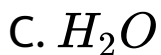
- A. Decreased turbidity
- B. Increased oxygenation
- C. Increased photosynthesis
- D. Increased turbidity and deoxygenation

Answer: D



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51. Which of the following is not a greenhouse gas ?



Answer: C



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52. High BOD indicates

A. Highly polluted water

B. Less pollution in H_2O

C. Less sewage

D. Less microorganism

Answer: A



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53. Increasing the concentration of accumulated pollutant along food chain is

A. Biomagnification

B. Bioaccumulation

C. Eutrophication

D. Biodiversity

Answer: A



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54. Which one of the following is a renewable source of energy?

A. Petroleum

B. Coal

C. Nuclear fuel

D. Trees

Answer: D



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55. Spraying of DDT produces pollution of

- A. Air only
- B. Air and soil only
- C. Air, soil, and water
- D. Air and water only

Answer: C



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56. Sewage water is purified for recycling by the action of

A. Light

B. Microorganisms

C. Aquatic plants

D. Fishes

Answer: B



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57. Which one is not dangerous

A. Biopollutants

B. Ozone layer

C. Nuclear blast

D. Deforestation

Answer: B



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58. Which of the following set is of greenhouse gases?

A. CFC , CH_4 , CO_2 , N_2O

B. CO_2 , CH_4 , N_2 , O_2

C. CO_2 , CH_4 , N_2O_3

D. CO_2 , CFC , N_2 , O_2

Answer: A



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59. Acid rain is due to pollution by

A. CO_2

B. SO_2 and NO_2

C. Dust particles

D. Automobiles

Answer: B



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60. Which of the following is a biodegradable pollutant?

A. Sewage

B. Plastic

C. Polythene

D. DDT

Answer: A



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61. The most hazardous metal pollutant of automobile exhaust is

A. Cadmium

B. Lead

C. Mercury

D. Copper

Answer: B



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62. Air quality indicator is

A. Lichen

B. Moss

C. Algae

D. None of these

Answer: A



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63. Blood hemoglobin has high affinity for

A. CO_2

B. CO

C. O_2

D. H_2

Answer: B



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64. Minamata disease caused due to water pollution is due to

- A. Lead poisoning
- B. Arsenic chloride poisoning
- C. Mercury poisoning
- D. Ammonia pollution

Answer: C



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65. Effect of pollution is first marked on

A. Microorganisms

B. Green vegetation of an area

C. Food crop

D. None of these

Answer: B



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66. Pollution is not caused by

A. Thermal power plant

B. Automobile

C. Radioactive power plant

D. Hydroelectric power plant

Answer: D



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67. Taj Mahal is being damaged by

A. SO_2

B. O_2

C. O_3

D. NO_2

Answer: A



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68. Minamata disease first occurred in

A. Japan

B. China

C. Korea

D. Russia

Answer: A



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69. One of the following is associated with the conservation of forests

A. Kaziranga

B. Ghana

C. Silent valley

D. Gir

Answer: C



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70. Which one is an endangered species?

A. Garden lizard and Mexican poppy

B. Rhesus monkey and sal tree

C. Indian peacock and carrot grass

D. Hornbill and Indian aconite

Answer: D



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71. If the Bengal Tiger becomes extinct,

A. Hyenas and wolves will become scare

B. The wild areas will be safe for man and
domestic animals

C. Its gene pool will be lost forever

D. The populations of beautiful animals such as deers will get stabilized

Answer: C



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72. If \vec{a} and \vec{b} are two unit vectors and θ is the angle between them, then the unit vector along the angular bisector of \vec{a} and \vec{b} will be given by

A. Pine

B. Oak

C. Orchids

D. Rhododrons

Answer: D



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73. Which one of the following pairs of geographically areas show maximum

biodiversity in our country considered hot spot of biodiversity.

- A. Sunderbans and Rann of Kutch
- B. Eastern Ghats and West Bengal
- C. Eastern Himalaya and Western Ghats
- D. Kerala and Punjab

Answer: C



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74. One of the ex situ conservation methods for endangered species is

A. Wildlife sanctuaries

B. Biosphere reserves

C. Cryopreservation

D. National parks

Answer: C



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75. Which of the following is the non-conventional source of energy?

A. Coal

B. Petroleum

C. Electricity from nuclear power plants

D. Solar radiations

Answer: D



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76. Petroleum resource is

A. Renewable

B. Non-renewable

C. Synthetic and biodegradable

D. Infinite and unconventional

Answer: B



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

A. Industrial wastes poured into water bodies

B. Extent to which water is polluted with organic compounds

C. Amount of carbon monoxide inseparably combined with hemoglobin

D. Amount of oxygen needed by green plants during night

Answer: B



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

A. Suspended particulate matter (SPM)

B. Oxides of sulfur

C. Carbon dioxide and carbon monoxide

D. Oxides of nitrogen

Answer: A



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

A. Photochemical smog

B. Dry acid deposition

C. Industrial smog

D. Wet acid deposition

Answer: B



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

- A. Drying of the lake very soon due to algal bloom
- B. An increased production of fish due to lots of nutrients
- C. Death of fish due to lack of oxygen
- D. Increased population of aquatic food web organisms

Answer: C



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81. Minamata disease is caused due to presence of in water.

- A. Sea food containing a lot of cadmium
- B. Fish contaminated with mercury
- C. Oysters with a lot of pesticide
- D. Sea food contaminated with selenium

Answer: B



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

A. DDT is a non-biodegradable pollutant

B. Excess fluoride in drinking water causes osteoporosis

C. Excess cadmium in drinking water causes black foot disease

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

Answer: A



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83. Non-ionising radiations damaging to DNA are

A. X-rays

B. U.V. rays

C. Gamma rays

D. Beta rays

Answer: B



84. Which one is not produced as exhaust of vehicle ?

A. SO_2

B. Hydrocarbon gases

C. Fly ash

D. CO

Answer: C



85. Pollution can be controlled by

A. Sewage treatment

B. Checking atomic blasts

C. Manufacturing electrically operated
vehicles

D. All the above

Answer: D



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86. If water pollution continues at its present rate, it will eventually

A. Stop water cycle

B. Prevent precipitation

C. Make oxygen molecules unavailable to water plants.

D. Make nitrate molecules unavailable to water plants

Answer: B





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87. Which is the greatest air pollutant these days?

- A. Factories
- B. Motor vehicles
- C. Domestic appliances
- D. Animals

Answer: B



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88. Removal of the soil by the action of wind and water is known as

- A. Erosion
- B. Fossilization
- C. Leaching
- D. Calcification

Answer: A



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89. Eutrophication refers to:

A. High production in an aquatic ecosystem

B. Low production in an aquatic ecosystem

C. Low production in a terrestrial

D. Stable production in a terrestrial
ecosystem

Answer: A



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90. Photochemical smog was first observed in

A. London

B. Los Angeles

C. Paris

D. Tokyo

Answer: B



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91. Domestic waste will lead to-

- A. Biodegradable pollution
- B. Nondegradable pollution
- C. Thermal pollution of soil
- D. Air pollution

Answer: A



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92. The major source of BOD in the river Ganga is

A. Leaf litter

B. Fishes

C. Human waste

D. Aquatic plants

Answer: C



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93. If a lake is contaminated with DDT, its highest concentration would be found in-

- A. Primary consumer
- B. Secondary consumer
- C. Tertiary consumer
- D. None of these

Answer: C



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94. The most harmful air pollutant produced by automobiles is

A. HNO_2

B. NO

C. SO_2

D. CO

Answer: D



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95. Sewage water can be purified for recycling
with action of :

- A. Aquatic plant
- B. Micro organism
- C. Penicillin
- D. Fishes

Answer: B



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

A. SO_2

B. CFC

C. CO

D. CCl_4

Answer: B



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97. It is said that the Taj Mahal may be destroyed due to :

A. Flood in Yamuna river

B. Air pollutants released from oil refinery of Mathura

C. Decomposition of marble as a result of high temperature

D. All the above

Answer: B



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98. Radiation is a health hazard because it occurs

A. Pneumonia

B. Leukemia

C. Hemophilia

D. Anemia

Answer: B



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99. Exposure of plants to high fluoride concentration results in necrosis or chlorosis characteristically in

A. Petiole but not in lamina

B. Only mid rib in lamina

C. Leaf tip and leaf margins

D. Stem tips only

Answer: C



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100. In cities like Bombay and Calcutta the major air pollutants are

A. Ozone

B. Carbon monoxide and oxides of Sulphur

C. Hydrocarbons and not air

D. Algal spores and marsh gas

Answer: B



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101. Recent reports of acid rain in some industrial cities are due to the effect of atmospheric pollution by :

A. Excessive release of NO_2 and SO_2 by burning of fossil fuels

B. Excessive release of CO_2 by burning of fuel like wood and charcoal, cutting of forests and increased animal population.

C. Excessive release of NH_3 by industrial plants and coal gas.

D. Excessive release of CO in atmosphere by incomplete combustion of coke, charcoal and other carbonaceous fuels in paucity of oxygen

Answer: A



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102. Reason for the elimination of wildlife is

A. Deforestation

B. Forest fire

C. Floods

D. Less rainfall

Answer: A



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103. The main reason of disturbance of biological diversity is

A. Greenhouse effect

B. Hunting

C. Soil erosion

D. Destruction of natural habitats

Answer: D



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104. If CO_2 is absent in the atmosphere of earth, then

A. Temperature will decrease

B. Temperature will increase

C. Plants will flourish well

D. No effect

Answer: A



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105. CO is harmful because

A. It forms stable compound with

hemoglobin

B. It blocks mitosis

C. It is mutagenic

D. It causes defoliation

Answer: A



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106. Besides CH_4 and CO_2 , other greenhouse gas from agriculture area is

A. SO_2

B. NH_3

C. NO_2

D. CFC

Answer: C



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107. Temperature variation in Pacific Ocean in present time is called

A. Cyclone effect

B. El Nino effect

C. Greenhouse effect

D. Gaudikov's effect

Answer: B



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108. Sewage purification is performed by

A. Microbes

B. Fertilizers

C. Antibiotics

D. Antiseptics

Answer: A



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109. The best method to preserve the wild relatives of plants is

A. By growing them in natural habitats

B. Gene library

C. By storing seeds

D. Cryopreservation

Answer: A



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110. Species diversity is maximum in:-

A. Tropical rain forest

B. Temperate forest

C. Deserts

D. Hill slopes

Answer: A



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111. Forest cover of India according to "State of Forest Report 1997" of Ministry of Environment and Forest is :

A. 11.0

B. 19.5

C. 17.0

D. 18.7

Answer: B



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112. Best economic method to harvest the solar energy:-

A. Solar cell

B. Energy plantation

C. Cultivation of sugarcane, then energy obtained by burning it

D. Solar cooker

Answer: C



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113. The Bhopal Gas Tragedy is related with

A. Methane

B. Carbon monoxide

C. Methyl isocyanate (MIC)

D. SO_2

Answer: C



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114. The concentration of DDT is the highest in

A. Primary consumer

B. Producers

C. Top consumer

D. Decomposers

Answer: C



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115. Lichens can be used

- A. Bioindicator for water and air pollution
- B. Initial vegetation for waste lands
- C. Source of wood
- D. To check air pollution

Answer: D



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116. What is phytotron?

- A. A device to grow plants in controlled environment
- B. Growing plants in greenhouse
- C. Radiation chamber to induce mutations

D. Apparatus to study the effect of light on plants

Answer: B



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117. Which of the following is a secondary pollutant

A. PAN

B. CO

C. NO_2

D. SO_2

Answer: A



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118. Maximum DDT is present in birds feeding
on

A. Fishes

B. Meat

C. Insects

D. Seeds

Answer: A



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119. Greenhouse effect is

A. Gardening outside the house

B. Global cooling

C. Global warming

D. Green color house

Answer: C



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120. What shall be the effect of destruction of wildlife?

A. Wild gene of disease resistance will not be obtained

B. Soil erosion

C. Floods

D. Greenhouse effect

Answer: A



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121. Occurrence of higher number of endemic species in South America and Australia is due to

- A. The species has been extinct from other regions
- B. Continental separation
- C. There is no terrestrial route to these places
- D. Retrogressive evolution

Answer: B



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122. What is BOD?

A. The amount of O_2 utilized by organisms
in water

B. The amount of O_2 utilized by
microorganisms for decomposition.

C. The total amount of O_2 present in water

D. All of the above.

Answer: B



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123. What is the intensity of sound during normal conversation?

A. 10-20 db

B. 30-60 db

C. 70-90 db

D. 120-150 db

Answer: B



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

A. Reacted with ammonia

B. Reacted with CO_2

C. Reacted with water

D. Reacted with DDT

Answer: C



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125. Montreal protocol which calls for appropriate action to protect the ozone layer from human activities was passed in the year:

A. 1988

B. 1985

C. 1986

D. 1987

Answer: D



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126. Number of wild life is continuously decreasing. What is the main reason of this?

A. Predation

B. Cutting down of forest

C. Destruction of habitat

D. Hunting

Answer: C



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127. Which of the following is absent in polluted water?

A. Hydrilla

B. Water hyacinth

C. Larva of stone fly

D. Blue green algae

Answer: C



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128. Maximum greenhouse gases are released from:

A. India

B. France

C. USA

D. Britain

Answer: A



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129. Increase in the BOD of water reservoir is due to

A. Algae

B. Soil

C. Moss

D. Waste product

Answer: D



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130. Lead concentration of blood is considered alarming at

A. 30 mg/ 100 ml

B. 4-6 mg/100 ml

C. 10 mg/100 ml

D. 20 mg/100ml

Answer: A



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131. Blood analyses of a patient reveals an unusually high quantity of carboxy haemoglobin content which of the following conclusions is most likely to be correct the patient has been inhaling polluted air containing unusually high content of

A. Carbon monoxide

B. Carbon disulfide

C. Chloroform

D. Carbom dioxide

Answer: A



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132. Common indicator organism of water pollution is

- A. *Entamoeba histolytica*
- B. *Lemna paucicostata*
- C. *Eichhornia crassipes*
- D. *Escherichia coli*

Answer: D



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133. According to IUCN Red List, what is the status of Red Panda (*Ailuurus fulgens*)?

- A. Critically species
- B. Vulnerable species
- C. Extinct species
- D. Endangered species

Answer: D



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134. One of the most important functions of botanical gardens is that

A. They provide a beautiful area for recreation

B. One can observe tropical plants there

C. They allow ex situ conservation of
germplasm

D. They provide the natural habitat for
wildlife

Answer: D



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135. Which one of the following pairs is
mismatched ?

A. Nuclear power- Radioactive wastes

B. Solar energy - Greenhouse effect

C. Fossil fuel burning- Release of CO_2

D. Biomass burning-Release of CO_2

Answer: D



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136. identify the correctly matched pair

A. Kyoto Protocol - Climatic change

B. Montreal Protocol - Global warming

C. Basal convention - Biodiversity
conservation

D. Ramsar convention- Ground water
pollution

Answer: A



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137. Prolonged liberal irrigation of agricultural fields is likely to create the problem of

A. Acidity

B. Aridity

C. Salinity

D. Metal toxicity

Answer: B



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138. Which of the following is not used for disinfection of drinking water?

A. Chlorine

B. Ozone

C. Chloramine

D. Phenyl

Answer: D



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139. All the following are included under in situ conservation except

A. Biosphere reserve

B. National Park

C. Sanctuary

D. Botanical garden

Answer: D



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140. Which of the following is considered a hot-spot of biodiversity in India ?

- A. Eastern Ghats
- B. Aravalli Hills
- C. Western Ghats
- D. Indo-Gangetic Plain

Answer: C



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141. Limit of BOD prescribed by Central Pollution Control Board for the discharge of industrial and municipal waste water into natural surface water:

A. < 100 ppm

B. < 30 ppm

C. < 3 ppm

D. < 10 ppm

Answer: A



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142. The blue baby syndrome results from

- A. Excess of dissolved oxygen
- B. Excess of TDS (total dissolved solids)
- C. Excess of chloride
- D. Methaemoglobinaemia

Answer: D



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143. Photochemical smog does not contain

A. Carbon dioxide

B. PAN (peroxy acyl nitrate)

C. Ozone

D. Nitrogen dioxide

Answer: A



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144. Tiger is not a resident in which one of the following national park ?

A. Jim Corbett

B. Ranthambhor

C. Sunderbans

D. Gir

Answer: D



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145. Which one of the following is an example of ex-situ conservation?

A. Wildlife sanctuary

B. Seed bank

C. Sacred groves

D. National parks

Answer: B



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146. The Indian Rhinoceros is a natural inhabitant of which one of the Indian states ?

- A. Uttar Pradesh
- B. Himachal Pradesh
- C. Assam
- D. Uttarakhand

Answer: C



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Assertion Reasoning Questions

1. Assertion: Euro II norms are framed to reduce the content of CO and aromatic compounds from fuels.

Reason: These compounds lead to reduced visibility and carboxyhemoglobin formation.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (3).

D. If both Assertion and Reason are false, then mark (4).

Answer: D



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2. Assertion: Sewage discharge in a water body causes eutrophication.

Reason: This increases the organic content in water body and, hence, the growth of algal blooms.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (3).

D. If both Assertion and Reason are false, then mark (4).

Answer: B



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3. Assertion: Biomagnification of DDT can enhance the decline in bird population.

Reason: DDT causes thinning of egg shell and their premature breaking by disturbing calcium metabolism.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (3).

D. If both Assertion and Reason are false, then mark (4).

Answer: A



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4. Assertion: Ecological sanitation is a sustainable system for handling human excreta.

Reason: It is a practical and hygienic method of using dry composting toilets.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (3).

D. If both Assertion and Reason are false, then mark (4).

Answer: A



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5. A : El Nino is a climatic change which causes deleterious environmental changes.

R : Increased tropospheric ozone due to El Nino cause shift of climatic regions.

A. If both Assertion and Reason are true and the reason is the correct explanation of the assertion, then mark (1).

B. If both Assertion and Reason are true but the reason is not the correct explanation of the assertion, then mark (2).

C. If Assertion is true but Reason is false, then mark (3).

D. If both Assertion and Reason are false, then mark (4).

Answer: C



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Archives

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

A. CO

B. SO_2

C. NO_x

D. SPM

Answer: D



Watch Video Solution

2. Which one of the following is not a bioindicator of water pollution?

A. Sewage fungus

B. Sludge worms

C. Blood-worms

D. Stone flies

Answer: D



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3. Which one of the following is not observed in biodiversity in hot spots?

A. Lesser inter-specific competition

B. Species richness

C. Endemism

D. Accelerated species loss

Answer: D



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4. Which of the following is the correct percentage of the two (out of the total of 4) greenhouse gases that contribute to the total global warming?

A. N_2O 6%, CO_2 86%

B. Methane 20%, N_2O 18%

C. $CFCs$ 14%, methane 20%

D. CO_2 40%, CFCs 30%

Answer: C



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5. 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. Argentina

B. South Africa

C. Brazil

D. Sweden

Answer: B



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6. About 70% of total global carbon is found in

A. Ocean

B. Forests

C. Desert

D. Rain forest

Answer: A



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7. A lake near a village suffered heavy mortality of fishes within a few days. Consider the following reasons for this?

(a) Lots of urea and phosphate fertilizers were

used in the crops in the vicinity.

(b) The area was sprayed with DDT by an aircraft.

(c) The lake water turned green and stinky.

(d) Phytoplankton population in the lake declined initially thereby greatly reducing photosynthesis. Which two of the above were the main causes of fish mortality in the lake?

A. (a), (c)

B. (a), (b)

C. (b), (c)

D. (c), (d)

Answer: A



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8. According to Central Pollution Control Board (CPCB), which particular size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health ?

A. 1.0 or less

B. 5.2-2.5

C. 2.5 or less

D. 1.5 or less

Answer: C



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9. Which one of the following is being tried in india as a bio fuel substitue for fossil fuels ?

A. Musa

B. Aegilops

C. Jatropha

D. Azadirachta

Answer: C



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10. Montreal Protocol aims at:

A. Control of CO_2 emission

B. Reduction of ozone depleting substances

C. Biodiversity conservation

D. Control of water pollution

Answer: B



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11. Chipko movement was launched for the protection of

A. Wet lands

B. Grasslands

C. Forests

D. Livestock

Answer: C



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

A. Use of non-polluting compressed natural gas (CNG) only as fuel by all buses and trucks

B. Compulsory mixing of 20% ethyl alcohol with petrol and 20% biodiesel with diesel

C. Compulsory PUC (pollution under control) certification of petrol driven vehicles which tests for carbon monoxide and hydrocarbons

D. Permission to use only pure diesel with a maximum of 500 ppm sulfur as fuel for vehicles

Answer: A



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

A. Increases when sewage gets mixed with river water

B. Remains unchanged when algal bloom occurs

C. Has no relationship with the concentration of oxygen in water

D. Gives a measure of Salmonella in water

Answer: A



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

A. Water soluble

B. Fat soluble

C. Moderately toxic

D. Non-toxic to aquatic animals

Answer: B



Watch Video Solution

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

- A. The Vienna Convention
- B. Rio de Janeiro Conference
- C. The Montreal Protocol
- D. The Koyoto Protocol

Answer: C



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16. Breeding of crops with high levels of minerals vitamins and proteins is called

A. Somatic hybridization

B. Biofortification

C. Biomagnification

D. Micropropagation

Answer: B



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

A. CO_2 and CH_4

B. CH_4 and N_2O

C. $CFCs$ and N_2O

D. CO_2 and N_2O

Answer: A



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18. Name one (1) inexhaustible resource, (2) Renewable exhaustible resource (3) Non-renewable exhaustible resource

A. Coal

B. Petroleum

C. Minerals

D. Forest

Answer: D



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19. When domestic sewage mixed with river water

A. The increased microbial activity releases micronutrients such as iron

B. The increased microbial activity uses up dissolved oxygen

C. The river water is still suitable for drinking as impurities are only about 0.1

%

D. Small animals such as rats will die after drinking river water

Answer: B



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

A. the density of bacteria in a medium

B. a particular pollutant

C. the dominant Bacillus in a culture

D. a certain pesticide

Answer: B



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21. Which one of the following statements is incorrect regarding Bhopal gas tragedy ?

A. It took place in the night of December 2-3, 1984

B. Methyl Isocyanate gas leakage took place

C. Thousands of human beings died

D. Radioactive fall out engulfed Bhopal

Answer: D



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22. Which of the following is mainly produced by the activity of anaerobic bacteria on sewage

A. Marsh gas

B. Laughing gas

C. Propane

D. Mustard gas

Answer: A



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23. Secondary sewage treatment is mainly a:

A. Biological process

B. Physical process

C. Mechanical process

D. Chemical process

Answer: A



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24. Which one of the following pairs of gases are the major cause of "Greenhouse effect" ?

A. CO_2 and N_2O

B. CO_2 and O_3

C. CO_2 and CO

D. $CFCs$ and SO_2

Answer: A



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25. Which one of the following expanded forms of the following acronyms is correct ?

A. IUCN = International Union for
Conservation of Nature and Natural
Resources

B. IPCC = International Panel for Climate
Change

C. UNEP = United Nations Environmental
policy

D. EPA= Environmental Pollution Agency

Answer: A



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26. Which one of the following is a wrong statement?

A. Ozone in the upper part of atmosphere is harmful to animals.

B. Greenhouse effect is a natural phenomenon.

C. Eutrophication is a natural phenomenon in fresh water bodies.

D. Most of the forests have been lost in tropical areas.

Answer: C



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27. Which one of the following areas in India is a hotspot of biodiversity ?

A. Gangetic Plain

B. Sunderbans

C. Western Ghats

D. Eastern Ghats

Answer: C



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28. Measuring Biochemical Oxygen Demand

(BOD) is a method used for

A. Measuring the activity of *Saccharomyces*

cerevisiae in producing curd on a

commercial scale

B. Working out the efficiency of R.B.Cs.

about their capacity to carry oxygen

C. Estimating the amount of organic

matter in sewage water

D. Working out the efficiency of oil driven

automobile engines

Answer: C



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

- A. Cobras were feeding exclusively on birds
- B. Many of the birds eggs laid, did not hatch
- C. Birds stopped laying eggs
- D. Earthworms in the area got eradicated

Answer: B



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30. Select the correct statement about biodiversity.

A. The desert areas of Rajasthan and Gujarat have a very high level of desert animal species as well as numerous rare animals.

B. Large scale planting of Bt cotton has no adverse effect on biodiversity.

C. Western Ghats have a very high degree of species richness and endemism.

D. Conservation of biodiversity is just a fad pursued by the developed countries.

Answer: C



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31. Global warming can be controlled by

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

Answer: A



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32. Kyoto Protocol was endorsed at

A. CoP-3

B. CoP-5

C. CoP-6

D. CoP-4

Answer: A



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

A. 1975

B. 1981

C. 1985

D. 1990

Answer: B



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

A. Gases like sulphur dioxide

B. Particulate matter of the size 5 micrometer or above

C. Gases like ozone and methane

D. Particulate matter of the size 2.5 micrometer or less

Answer: D





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35. A location with luxuriant growth of lichens on the trees indicates that the

- A. Trees are very healthy
- B. Trees are heavily infested
- C. Location is highly polluted
- D. Location is not polluted

Answer: D



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36. Which of the following is not one of the prime health risk associated with greater UV radiation through the atmosphere due to depletion of stratospheric ozone ?

- A. Increased liver cancer
- B. Increased skin cancer
- C. Reduced Immune System
- D. Damage to eyes

Answer: A



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37. The UN Conference of Parties on climate change in the year 2011 was held in

A. Qatar

B. Poland

C. South Africa

D. Peru

Answer: A



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

- A. consumption of organic matter in the water is higher by the microbes
- B. water is pure
- C. water is highly polluted
- D. water is less polluted

Answer: A



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

A. oxygen

B. food

C. light

D. essential minerals

Answer: A



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

A. O_3 and dust

B. SO_2 and NO_2

C. SO_3 and CO

D. CO_2 and CO

Answer: B



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

- A. Fungi
- B. Lichens
- C. Conifers
- D. Algae

Answer: B



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42. Joint Forest Management Concept was introduced in India during

A. 1960 s

B. 1970 s

C. 1980 s

D. 1990 s

Answer: C



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

A. Nitrous oxide

B. Ozone

C. Ammonia

D. Methane

Answer: B



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

A. Drying of the river very soon due to algal bloom.

B. Increased population of aquatic food web organisms.

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

D. Death of fish due to lack of oxygen.

Answer: D



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45. Red List contains data or information on

A. threatened species

B. marine vertebrates only

C. all economically important plants

D. plants whose products are in

international trade

Answer: A



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