



BIOLOGY

BOOKS - TRUEMAN'S BIOLOGY (ENGLISH)

ENVIRONMENTAL ISSUES

Multiple Choice Question

1. A normal component of environment which becomes pollutant when its concentration crosses a threshold value is called

A. quantitative pollutant

B. qualitative pollutant

C. degradable pollutant

D. physical pollutant

Answer: A



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2. Qualitative pollutants are

A. added by man

B. naturally occurring

C. present in the High concentration

D. none of these

Answer: A



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3. The Environment Protection Act of Government of India was passed in

A. 1976

B. 1986

C. 1966

D. 1996

Answer: B



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4. Ecological backlash (or ecological boomerang) is

- A. production of adverse ecological effect by a previously useful chemical
- B. production of useful ecological effect by a previously useful chemical
- C. heat emission due to bomb explosion

D. none of these

Answer: A



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5. When did the water (Prevention and control of pollution) Act come into operation India ?

A. 1969

B. 1972

C. 1970

D. 1974

Answer: D



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6. Some times secondary pollutants like Ozone, PAN (Peroxy acyl nitrate), HNO_3 , H_2SO_4 formed from primary pollutants are moer toxic than primary pollutants. This phenomenon of increased toxicity in pollutants is called

- A. Biomagnification
- B. Eutrophication
- C. Synergism

D. Green house effect

Answer: C



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

A. SO_2

B. CO_2

C. CO

D. flyash

Answer: D



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8. Climate of the world is threatened by

A. increasing amount of CO_2

B. increasing amount of O_2

C. increasing amount of O_3

D. none of the above

Answer: A



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

A. SPM

B. SO_2

C. NO_2

D. CO & SO_2

Answer: D



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10. Major aerosol pollutant present in jet plane emission is :

- A. sulphur dioxide
- B. carbon tetrachloride
- C. carbon monoxide
- D. fluorocarbon

Answer: D



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11. Decolouration of lead and silver paints is caused due to

- A. sulphur dioxide
- B. carbon monoxide
- C. hydrogen sulphide
- D. ozone

Answer: C



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

- A. same as present
- B. less than the present
- C. higher than the present
- D. dependent on O_2 in atmosphere.

Answer: B



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13. CO is more toxic than CO_2 because it :

A. it effects the revous system

B. it damages lungs

C. it reduce the oxygen carrying capacity of
haemoglobin

D. it forms acid with water

Answer: C



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14. Chlorosis in plants is mainly caused by

- A. CO pollution
- B. Arsenic pollution
- C. SO_2 pollution
- D. Soot particles

Answer: C



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15. Lead pollution in Indian cities had been mainly due to

A. electronic gadgets

B. automoblies

C. batteries

D. lead pencils

Answer: B



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16. Taj mahal is threatened by pollution from

A. chlorine

B. sulphur dioxide

C. oxygen

D. hydrogen

Answer: B



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17. Lichen deserts indicate

A. air pollution due to CO

B. air pollution due to SO_2

C. pollution due to smoke

D. noise pollution

Answer: B



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18. Death while sleeping in closed room with burning coal furnace is due to

A. CO_2

B. CO

C. CCl_4

D. SO_2

Answer: B



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19. The major source of pollution upto 80 % of total air pollution in metropolitan cities is

- A. automobiles (Traffic) /Transportation
- B. coal based industries
- C. pesticides
- D. radioactivity and noise

Answer: A



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20. Major air pollutant is

A. CO_2

B. N_2

C. SO_2

D. CO

Answer: D



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21. Taj Mahal is being damaged by

A. air pollution from Mathura refinery

B. Yamuna water

C. nuclear pollution and railway yard

D. (1) and (2) both

Answer: A



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22. Removal of desirable substances/plants is called

A. negative pollution

B. positive pollution

C. biomagnification

D. conservation

Answer: A



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23. Safe limit of water fluoride level is

A. $0.1 \times 0.4\text{mg/litre}$

B. $0.5 \times 0.8\text{mg/litre}$

C. $0.9 \times 1.2\text{mg/litre}$

D. $1.3 \times 1.6\text{mg/litre}$

Answer: B



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24. The congress grass/carrot grass that causes allergy arrived in India in 1956. It is

- A. *Parthenium hysterophorus*
- B. *Eichhornia crassipes*
- C. *Opuntia dilleni*
- D. *Sorghum halepense*

Answer: A



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25. Which is the gas that produces the most damaging acid rains ?

A. SO_2

B. O_3

C. CO_2

D. H_2

Answer: A



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26. Smog is combination of

A. air and water vapour

B. water and smoke

C. smoke and fog

D. fire and water

Answer: C



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27. Smog the occurs mainly by automobile exhausts at high temperature over congested metropolitan

cities due to still air is called

- A. London smog
- B. Classical smog
- C. Both (1) and (2)
- D. Photochemical smog

Answer: D



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28. London smog of 1952 that killed about 4000 lives persons, was

A. photochemical and rich in NO_2

B. coal induced and rich in SO_2

C. effect of nuclear accident

D. due to atomic explosion

Answer: B



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29. Smog that occurs due to low temperature and has reducing environment is

A. London smog

B. Photochemical smog

C. Los Angeles smog

D. All the above

Answer: A



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30. Which is always present in photochemical smog

?

A. Ozone

B. CO_2

C. SO_2

D. CH_4

Answer: A



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31. Which of the following damages chloroplasts and reduces photosynthetic efficiency ?

A. Peroxyacetyl nitrate

B. Carbon monoxide

C. Carbon dioxide

D. SPM

Answer: A



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32. Ultraviolet rays in sunlight cause a reaction that produces the pollutant

A. CO pollution

B. CH_4

C. SO_2

D. O_3

Answer: D



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33. Smog is consequence of

A. rapid build of CO_2 in atmosphere

B. depletion of ozone layer

C. presence of high pressure in atmosphere

D. rapid build up of photochemical oxidants,
pollutants and thermal inversions

Answer: D



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34. The most serious pollutant to rubber tyres is

A. CO_2

B. CO

C. O_3

D. NO_2

Answer: C



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

A. Ammonia

B. sulphur dioxide

C. Nitrous

D. Ozone

Answer: C



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36. Ozone hole is due to mainly two green house gases which are

A. CO_2 , CH_4

B. N_2O and $CFCs$

C. N_2O and CO

D. CFC and CO_2

Answer: B



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37. Which part of human body is the first to be affected by nuclear radiations?

A. Bone marrow

B. Liver

C. Lungs

D. Brain

Answer: A



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38. The Chernobyl disaster in the then USSR (now Ukraine) was caused on 26.4.1986 by a

- A. pesticide factory accident
- B. nuclear reactor accident
- C. nuclear waste disposal
- D. nuclear weapon accident

Answer: B



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39. Green house gasses like CO_2 , CH_4 , CFC , N_2O and house (bromine) are

A. reflector of long wave radiations like infrared emitted from earth surface

B. transparent to solar and radiatons for warming of atmopshere

C. absorber of solar radiations for warming of atmosphere

D. transparent to emissions from earth for passage into space

Answer: A



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

- A. wheat fields marshes
- B. Rice fields, cattles and marshes
- C. Sugarcane plantation and buffaloes
- D. Fruit orchards

Answer: B



41. CO_2 is called a green house gas because

A. it is transparent to sunlight but opaque to heat

B. transparent to light & heat radiation & both

C. transparent to light & heat radiation both to sunlight

D. used in green houses to increase plant growth

Answer: A



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42. Contribution of methane to global warming is:

A. 6 %

B. 14 %

C. 20 %

D. 30 %

Answer: C



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43. The present average temperature of earth is

A. $10^{\circ} C$

B. $12^{\circ} C$

C. $14^{\circ} C$

D. $15^{\circ} C$

Answer: D



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44. Ozone hole is maximum over

A. India

B. Antarctica

C. Europe

D. Africa

Answer: B



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45. It is used in refrigerator and air conditioners and it is a source of Cl^- :

A. Benzopyrene

B. Freon

C. Benzene

D. CH_4

Answer: B



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46. Range of human hearing is

A. $20 - 400Hz$

B. $100 - 1000Hz$

C. $20 - 20000Hz$

D. $1000 - 15000 Hz$

Answer: C



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47. Tubifex in water indicates its

A. thermal pollution

B. organic loading

C. toxic Metals

D. high salt contents

Answer: A



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48. Highly polluted waters have

A. high Algal Genus index

B. low Algal Genus index

C. no algae at all

D. a few algal genera and a few bacteria

Answer: B



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49. BOD is

A. amount of O_2 required by a few bacteria in water

B. amount of O_2 required by microbes for decomposition of organic matter

C. amount of O_2 present in water at $37^\circ C$

D. all of the above

Answer: B



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50. The first rate pollution monitor are

A. molluscs

B. butterflies

C. honey bee

D. plants

Answer: A



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51. Match the following

- | | | |
|-------------------|-----|--------------------------|
| 1. Acid rain | (A) | Biological amplification |
| 2. DDT | (B) | Minral pollution |
| 3. BOD | (C) | Smog |
| 4. Eutrophication | (D) | Sewage pollution |
| 5. PAN | (E) | SO_2 |

A. (a) 1-(E), 2-(A), 3-(D), 4-(B) , 5- (C)

B. (b) 1-(E), 2-(D), 3-(A), 4-(B) , 5-(C)

C. (c) 1-(C), 2-(D), 3-(A), 4-(B) , 5-(E)

D. (d) 1-(C), 2-(B), 3-(D), 4-(A) , 5-(CE)

Answer: B



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52. Events that take place in eutrophication on given below

- (a) excessive growth of algae
- (b) depletion of dissolved oxygen
- (c) bacteria feed on dead algae cells
- (d) aquatic body becomes rich in phosphates

The correct order of events cells that occurs here is

- A. (a), (d) , (c), (b)
- B. (d), (a), (c), (b)
- C. (a), (b), (d), (c)
- D. (d), (c), (b), (a)

Answer: B



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53. Water of often treated with chlorine to

- A. kill germs
- B. remove hardness of water
- C. to remove suspended particles
- D. to increase oxygenation

Answer: A



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54. Warm ocean surge or Peru current that recurs after 5-8 years in East pacific along south America is

A. El Nino

B. Aye Aye

C. Gulf stream

D. Magnox

Answer: A



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55. Among pollutants which has the most lasting effect

A. CO pollution

B. Pesticides

C. Smoke

D. SO_2

Answer: B



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56. Water blooms are mainly formed by

A. Protozoa

B. Planktonic blue green Algae

C. Slime moulds

D. Lemna and Hydrilla

Answer: B



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57. Phosphate pollution is caused by

A. phosphate rocks

B. agricultural fertilizers

C. sewage and automobiles

D. sewage and agricultural fertilizers

Answer: D



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58. 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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59. The values of dissolved oxygen (DO) content in heavily polluted water is less than

A. 6.0mgL^{-1}

B. 9.0mgL^{-1}

C. 4.0mgL^{-1}

D. 8.0mgL^{-1}

Answer: C



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60. The natural ageing of the fresh water lake is called

- A. biomagnification
- B. eutrophication
- C. BOD
- D. green house effect

Answer: B



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61. Algal blooms in water bodies cause

- A. (a) enrichment of O_2 during nights
- B. (b) depletion of O_2 during nights
- C. (c) increase in fish production
- D. (d) increase in zooplankton

Answer: B



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62. The world's most problematic aquatic weed is also called

- A. (a) Terror of Delhi
- B. (b) Terror of Mumbai
- C. (c) Terror of Bangalore
- D. (d) Terror of Bengal

Answer: D



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63. A most harmful environment pollutant/soil pollutant

- A. human waste
- B. fossil fuel and iron junks
- C. polythene sheet
- D. excessive nutrients in soil

Answer: C



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64. Jhuming mainly occurs in India in

A. hilly area

B. Madhya Pradesh

C. North east

D. Malabar areas

Answer: C



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65. DDT and other chlorinated hydrocarbons are toxic because these are

A. quantitative pollutants and kill insects

B. biodegradable pollutants and pollute the atmosphere

C. non biodegradable pollutants and accumulated in organisms through food chain

D. secondary pollutant and their concentration increases at every trophic level in food chain

Answer: C



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66. Which industry workers suffer from Byssinosis ?

A. Cardboard

B. Coal miners

C. Textile

D. Paper

Answer: C



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67. Cotton dust produced in industry during ginning process causes

A. siderosis

B. asbestosis

C. pneumoconiosis

D. asthma

Answer: C



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68. Which disease in children is caused by intensive use of nitrate fertilizer

A. Septal defects in heart

B. Methaemoglobinaemia

C. Mumps

D. (1) and (2) both

Answer: B



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69. Deficiency of fluorine in drinking water caused

A. dental caries

B. dental flourosis

C. skeletal fluorosis

D. goiter

Answer: A



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70. Which usually causes fibrosis in lungs ?

A. Lead

B. Asbestoos

C. CFC

D. DDT

Answer: B



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71. Knocks knee disease is

- A. caused by homonal imbalance and excess of
HG
- B. due to deficiency of tyrosine
- C. due to excess fluoride concentration in water
- D. due to high BOD and high temperature of
water by thermal pollution

Answer: C



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72. A person has impaired nervous system and signs of madness due to continued intake of metal contaminated water. The metal is

A. Fe

B. Ca

C. Pb

D. Flouride

Answer: C



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73. In Minamata Bay, Japan which of the following animals remained free from "Minamata disease"?

A. Cats

B. Rabbits

C. Dogs

D. Humans

Answer: B



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74. Black lung disease is common in:

A. farmers

B. workers of textile industries

C. coal miners

D. refinery workers

Answer: C



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75. Fluoride pollution produces necrosis or chlorosis of mainly

A. leaf margin or tips

B. roots

C. petiole

D. mid rib

Answer: A



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76. In the treatment of waste water before discharge which treatment stage involve biological treatment ?

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

Answer: B



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77. The best method to dispose night soil is

- A. incineration
- B. composting
- C. sewage system
- D. primary treatment

Answer: C



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78. Activated sludge process is concerned with waste management. It is a

- A. (a) chemical treatment
- B. (b) biological treatment
- C. (c) mechanical means
- D. (d) nuclear means

Answer: B



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79. Superburg claimed to clean up oil slicks in ocean is

- A. (a) Eschrichia coli

B. (b) *Bacillus thuriengensis*

C. (c) *Pastuerella pestis*

D. (d) *Pseudomonas putida*

Answer: D



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80. NEERI is

A. National Environmental Engineering Research

Institute, Nagpur

B. National Ecological and Environmental

Research Institute, Pune

C. National Engencies and Ecological Research

Institute, Mumbai

D. National Ethological and Ecological Research

Institute , New Delhi

Answer: A



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81. Green muffer is meant for

- A. reducing smog
- B. sound insulation
- C. preventing haze formation
- D. reducing ground frost

Answer: B



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82. Plantations of rows of trees and shrubs along roads, rails, around residential complexes, educational institutes, etc. is called

A. shelter belt

B. green muffler

C. wind break

D. both (1) and (3)

Answer: B



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83. Due to attack to SO_2 and H_2SO_4 , the marble ($CaCO_3$) of Taj Mahal and Red stone of Red Fort changed into calcium sulphate which is bulky and causes

A. stone leprosy

B. stone mosaic

C. corrosion

D. none of these

Answer: A



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84. Which of the following is pollutant as well as protectant?

A. CO_2

B. Ozone

C. CFC

D. PAN

Answer: B



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85. Disappearance of fish from water bodies usually indicates excess of in water

A. Zn

B. Hg

C. Fluoride

D. Fe

Answer: B



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86. Use of lichens and Nerium in case of pollution is

A. tratment of polluted water

B. promate Pollution due to SO_2

C. bioindicators of SO_2 Pollution

D. green muffler

Answer: C



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87. Photochemical smog related to air pollution ,
primarily contains

- A. oxides of sulphur & carbon monoxide
- B. oxides of nitrogen and hydrocarbons
- C. oxides of sulphur and CFCs
- D. oxides and carbon and sulphur

Answer: B



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88. Ozone day, world Environment Day and National Pollution Prevention Day are celebrated respectively

A. June. 5, Sept. 6, Oct. 21

B. June. 5, Sept. 6, Dec. 2

C. Sept. 16, June. 5, Dec. 28

D. Sept. 16, June. 5, Dec. 2

Answer: D



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89. Chlorofluorocarbons are major depletor of ozone layer in stratosphere . They split to release chlorine. One atom of chlorine converts how many molecules of ozone into oxygen ?

A. 1 lakh

B. 2

C. 40

D. 1 million

Answer: A



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90. e-wastes refer to

- A. radioactivity waste
- B. nuclear waste
- C. can be both (1) and (2)
- D. electronic waste

Answer: D



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91. Sanitary landfill were adopted as the substitute for

A. sewage

B. biomagnification

C. eutrophication

D. open-burning dumps

Answer: D



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92. Under Column-I, a list of gases that are known to have a greenhouse effect is given .

Relate them to their main source selecting from the list given under column-II.

Column I	Column II
A. Nitrous oxide	1. Secondary pollutant from car exhausts
B. Chlorofluorocarbons (CFCs)	2. Combustion of fossil fuels, wood, etc.
C. Methane	3. Denitrification
D. Ozone (O_3)	4. Refrigerators, aerosol, sprays
E. 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-4, B-5, C-1, D-2, E-3

D. A-1, B-3, C-4, D-5, E-2

Answer: A



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93. Which of the following will not control particulate pollutants

A. (a) Incinerator

B. (b) Arrester

C. (c) Scrubber

D. (d) Filter

Answer: A



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94. The Central Pollution Control Board has recommended zone-wise permissible ambient noise level for residential area during day and night time is

A. 75 db & 70 db

B. 65 db & 55 db

C. 55 db & 45 db

D. 50 db & 40 db

Answer: C



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95. Which metal inactivates a catalytic converter ?

A. Gold

B. Iron

C. Silver

D. Lead

Answer: D



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96. Which of the following is an example of Bioemediation ?

- A. N_2 fixation in bacteria.
- B. Pesticides killing of microbes
- C. Ground water formation by bacteria.
- D. Microorganism using pesticides for energy

Answer: D



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97. Development that meets the need of the present without compromising the ability of future generation to meet their own need is called

- A. sustainable development
- B. social development
- C. economic development
- D. environment development

Answer: A



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98. Cyclone collector is used to minimise

A. radioactive pollution

B. water pollution

C. noise pollution

D. air pollution

Answer: D



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99. Reverse osmosis is done in treatment
..... stage of waste water.

A. primary

B. secondary

C. tertiary

D. NO_2

Answer: C



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100. Earth Summit at Rio de Janeiro was related to

A. (a) conservation of environment

B. (b) survey of natural resources

C. (c) soil fertility

D. (d) prevention of afforestation

Answer: A



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101. Ramsar Convention is related to

A. (a) conservation of wetlands

B. (b) sustainable development

C. (c) nuclear waste management

D. (d) global warming

Answer: A



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102. A forest is a

A. biotic community

B. population

C. a protected area

D. succession stage

Answer: A



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103. For the best ecological balance, land mass of a country in plains covered with forests must be

A. 22 %

B. 33 %

C. 30 %

D. 35 %

Answer: B



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104. Forests in India according to Central Forestry Commission (1980) are about

A. 19.4 %

B. 17.3 %

C. 31 %

D. 13.0 %

Answer: C



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105. What percentage of total area in hilly regions does the National Forests Policy suggests to be under forests

A. 30 %

B. 67 %

C. 33 %

D. 66 %

Answer: B



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106. Planting trees on public and common land is known as

- A. social forestry
- B. farm forestry
- C. agroforestry
- D. none of the above

Answer: A



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107. Afforestation with purpose of environmental, aesthetic and economic development is known as

- A. integrated afforestation
- B. social forestry
- C. agroforestry
- D. production plantation

Answer: A



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108. Planting of flower and fruit trees along road sides is included in

- A. agroforestry programme
- B. jhuming programme
- C. urban forestry programme
- D. van Mahotsava

Answer: C



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109. Our forests are on the decline because of

A. soil erosion

B. heavy floods

C. no afforestation

D. indiscriminate felling of trees and grazing

Answer: D



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110. Forests near equator region are called-

A. deciduous forests

B. tropical forests

C. coniferous forests

D. grasslands

Answer: B



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111. Which one is not correct for the effects of deforestation ?

A. It leads to soil erosion

B. It alters the weather pattern by decreasing rainfall

C. It speeds up nutrient recycling

D. It destroys natural habitats of wild life

Answer: C



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112. Chipko movement is the world's most known eco development programme, started S.L. Bahuguna is 1973 in Tehri Garhwal (Uttanchal). It is related with

A. plant/forests conservation

B. afforestation

C. conservation of water resources

D. population control

Answer: A



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113. Which type of forest is the most fertile reservoir of wild life ?

A. Temperate forests

B. Tropical rain forests

C. Deciduous forests

D. all of the above

Answer: B



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114. Jhum cultivation refers to

A. (a) cultivation of Jamun trees

B. (b) cultivation of medical plants by tribes

C. (c) tribal methods of shifting cultivation

D. (d) cultivation of terraces

Answer: C



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115. The main causative factor of desertification is

- A. (a) overgrazing
- B. (b) human Developmental activities
- C. (c) irrigated agriculture
- D. (d) tourism

Answer: B



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116. Social forestry programme is

- A. (a) to make up for the loss of tree cover
- B. (b) designed to prevent desertification
- C. (c) meant to restore soil fertility
- D. (d) to provide tree cover to meet daily needs
of society

Answer: D



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117. Soil erosion is prevented by

A. afforestation

B. overgrazing

C. removal of weeds

D. increasing birds population

Answer: A



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118. Nitrogen oxides produced from the emission of automobiles and power plants are the source of

fine air borne particles which lead to

- A. (a) Soil erosion
- B. (b) Dry acid deposition
- C. (c) Industrial smog
- D. (d) Wet acid deposition

Answer: B



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119. 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 lot 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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120. Pollution from animal excreta and organic waste from kitchen can be most profitably minimized by

A. storing them in underground storage tanks

B. using them for producing biogas

C. vermiculture

D. using them directly as biofertilizers

Answer: B



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121. What is true about the Euro IV norms

- A. It stipulates to control sulphur at 350 ppm in diesel and 150 ppm in petrol
- B. it stipulates to reduce sulphur levels to 50 ppm in petrol and diesel
- C. it stipulates to reduce sulphur level to 200 ppm in diesel and petrol
- D. it stipulates to reduce sulphur levels to 200 ppm in diesel and 100 ppm in petrol.

Answer: B

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122. 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: B

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123. According to Central Pollution Control board (CPCB). Which particulate size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health?

A. 5.2 – 2.5

B. 2.5 or less

C. 1.5 or less

D. 1.0 or less

Answer: B



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124. Choose the correct statement regarding the catalytic converters.

A. Motor vehicles equipped with catalytic converter should use leaded petrol

B. Catalytic converters have expensive metals namely platinum-palladium and rhodium as catalyst

C. Catalytic converters help in reducing particulate matter

D. As the exhaust passes through the catalytic converter nitrogen gas is converted to nitric

oxide

Answer: B



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125. Find the correct statement.

- A. The clean water organisms return in a river in which sewage has been discharged when the BOD is low.
- B. Having an algal bloom in a lake indicates good quality of water.

C. According to CPCB, particulate size 25 micrometers or less in air cause the greatest harm to human health.

D. In DDT bio magnification the maximum ill effect is on the zooplanktons

Answer: A



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126. Find the correct match.

- A. Dust particles get charged and are thus removed - Catalytic converters
- B. CO and Nitric oxide are changed to CO_2 and N_2 gas - Electrostatic precipitators
- C. Dry composting of human excreta - Sanitary land fills
- D. Exhaust is passed through lime to remove sulphur dioxide - Scrubber

Answer: D



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127. Bald Eagle had been at high risk of extinction due to its

- A. Large size
- B. Low reproductive potential
- C. High trophic level
- D. Change in migratory route

Answer: C



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128. The highest DDT concentration in aquatic food chain shall occur in:

- A. Phytoplankton
- B. Sea Guil/Birds
- C. Crab
- D. Eel

Answer: B



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

A. $0^{\circ} C$

B. $-5^{\circ} C$

C. $-7^{\circ} C$

D. $-20^{\circ} C$

Answer: D



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130. In 1984 the Bhopal gas tragedy took place because methyl isocyanate reacted with:

A. DDT

B. Ammonia

C. CO_2

D. Water

Answer: D



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131. Peroxy Acetyl Nitrate, a class of harardous air pollutants, stems from (i) O₂ (ii) SO_x (iii) NO_x (iv) CO (v) HC

- A. (i) and (iv)
- B. (iii) and (v)
- C. (ii) and (iv)
- D. (ii) and (v)

Answer: B



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132. A lake was found to harbour alarming level of a pesticide -DDT. The people most affected by accumulation of DDT in the body would be those that

- A. consumed products of plants growing in the lake
- B. eat fish from the lake
- C. eat birds dwelling in the same are
- D. used same water for bathing

Answer: C



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133. DDT has been banned from many developed countries because of its

A. high toxicity to mammals

B. high degree of persistence in the environment

C. low toxicity to insects

D. high solubility in water

Answer: B



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134. Which one of the following is a group of major green house gases ?

A. Carbon monoxide, methane, chlorofluoro carbons and oxides of nitrogen

B. Carbon dioxide, oxides of nitrogen , ethane and chlorofluoro carbons

C. Carbon dioxide, methane chlorofluoro carbons and oxides of nitrogen

D. Ethane, oxides of nitrogen , carbon monoxide and chlorofluoro carbons

Answer: C



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135. Identify the correctly matched pair:

- A. Kyoto Protocol - Climatic change
- B. Montreal Protocol - Global warming
- C. Basal Convention - Biodiversity Conservation
- D. Ramser Convention - Ground water pollution

Answer: A



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136. The material generally used for sound proffing of rooms like a recording studio and auditorium, etc. is

A. cotton

B. coir

C. wood

D. styro foam

Answer: D



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137. Which of the following causes bio magnification

A. SO_2

B. Mercury

C. DDT

D. Both (2) & (3)

Answer: D



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138. The expanded form of DDT is

- A. dichloro diphenyl trichloroethane
- B. dichloro diethyl trichloroethane
- C. dichloro dipyrydyl trichloroethane
- D. dichloro diphenyl tetrachloroacetate

Answer: A

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139. Choose the incorrect statement.

- A. The Montreal protocol is associated with the control of emission of ozone depleting

substances

B. Methane and carbon dioxide are green house gases

C. Dobson units are used to measure oxygen content

D. Use of incinerators is crucial to disposal of hospital wastes

Answer: C



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140. The loudness of a sound that a person can withstand without discomfort is about

A. $150dB$

B. $215dB$

C. 30 dB

D. 80 dB

Answer: D



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141. Match correctly the following and choose the correct option.

Environment Protection Act	A, 1974
Air prevention and control of Pollution Act	B. 1987
Water Act	C. 1986
Amendment of Air Act to include noise	D. 1981

The correct match is

- A. (i)-C, (ii)-D, (iii)-A, (iv)-B
- B. (i)-A, (ii)-C, (iii)-B, (iv)-D
- C. (i)-D, (ii)-A, (iii)-B, (iv)-C
- D. (i)-C, (ii)-D, (iii)-B, (iv)-A

Answer: A



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142. Which one of the following impurities is easiest to remove from wastewater ?

- A. Bacteria
- B. Colloids
- C. Dissolved solids
- D. Suspended solids

Answer: D



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143. Nuisance growth of aquatic plants and bloom-forming algae in natural waters is generally due to high concentrations of

A. carbon

B. sulphur

C. calcium

D. phosphorus

Answer: D



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144. Anthracosis is caused by

- A. coal dust
- B. iron dust
- C. cane fibres
- D. silica

Answer: A



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145. Checking of radiating heat by atmospheric dust, water vapour, ozone, CO_2 etc., is known as:

A. green house effect

B. solar effect

C. ozone layer effect

D. ratioactive effect

Answer: A



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146. "Chipko movement" was launched for the protection of :

A. Liverstock

B. Wet lands

C. Grasslands

D. Forests

Answer: D



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147. Steps taken by government of India in controlling air pollution are

A. Permission to use only pure diesel with a maximum of 500 ppm sulphur as fuel or

vehicles.

B. Use of non-polluting Compressed Natural Gas

(CNG) only as fuel by all buses and trucks

C. Compulsory mixing of 20 % ethyl alcohol with

petrol and 20 % biodiesel with diesel.

D. Compulsory PUC (Pollution Under Control)

certification of period driven vehicles which

tests of carbon monoxide and hydrocarbons

Answer: D



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148. Biochemical oxygen demand (BOD) in a river water

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

Answer: B



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149. When domestic sewage mixes with river water

A. Small animals like rats will die after drinking
river water

B. The increased microbial activity releases
micro-nutrients 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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150. The two gases making highest relative contribution to the greenhouse gases are:

A. CO_2 and N_2O

B. CO_2 & CH_4

C. CH_4 & N_2O

D. CFC_5 & N_2O

Answer: B

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

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

Answer: C



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152. Which of the following practices has caused maximum damage to the diversity of Indian forests ?

- A. Selecting harvesting
- B. Block cuttin
- C. Taungya cultivation
- D. Jhoom cultivation

Answer: D



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153. BOD level in fresh water should not exceed beyond:

A. 5 ppm

B. 10 ppm

C. 25 ppm

D. 50 ppm

Answer: D



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

A. bones

B. brain

C. skin

D. fatty tissue

Answer: D



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155. 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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156. Ecological sanitation is a sustainable system for handling human excreta, using dry composting toilets. Such 'EcoSan' toilets are working in many areas of:

- A. Assam and West Bengal
- B. Maharashtra and Andhra Pradesh
- C. Kerala and Sri Lanka
- D. Karnataka and Andhra Pradesh

Answer: C



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157. An international treaty, recognising the deleterious effects of ozone depletion is known as

- A. Kyoto Protocol
- B. Earth Summit
- C. Rio Conference
- D. Montreal Protocol

Answer: D



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

A. CO_2 and O_3

B. CO_2 and CO

C. $CFCs$ and SO_2

D. CO_2 and N_2O

Answer: D



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159. Which one of the following statement is wrong in case of Bhopal tragedy ?

A. Methyl Isocyanate gas leakage took place

B. Thousands of human beings died

C. Radioactive fall and engulfed Bhopal

D. It took place in the night of December
2 / 3, 1984.

Answer: C



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160. "Good ozone" is found in the

- A. Mesosphere
- B. Troposphere
- C. Stratosphere
- D. Ionosphere

Answer: C



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161. 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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162. In an area where DDT had been used extensively, the population of birds declined

significantly because:

- A. earthworms in the area got eradicated
- B. cobras were feeding exclusively on birds
- C. many of the birds eggs laid, did not hatch
- D. birds stopped laying eggs

Answer: C



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163. Measuring Biochemical Oxygen Demand (BOD)

is a method used for

A. Working out the efficiency of oil driven automobile engines

B. Measuring the activity of *Saccharomyces cerevisiae* in producing curd on a commercial scale

C. Working out the efficiency of R.B.Cs about their capacity to carry oxygen

D. Estimating the amount the organic matter in sewage water

Answer: D



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164. Which one of the following is a wrong statement

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

B. Greenhouse effect is a natural phenomenon

C. Eutrophication is a natural phenomenon in freshwater bodies

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

Answer: A



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165. Domestic sewage of large cities

- A. When treated in STPs does not really require the aeration step as the sewage contains adequate oxygen
- B. Has very high amounts of suspended solids and dissolved salts.

C. Has a high BOD as it contains both aerobic and anaerobic bacteria

D. Is processed by aerobic and then anaerobic bacteria in the secondary treatment in Sewage Treatment plants (STPs)

Answer: D



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

A. Hardness of water

B. Industrial pollution

C. Sewage pollution

D. Pollution due to electromagnetic radiations

Answer: C



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167. Kyoto Protocol was endorsed at:

A. CoP -6

B. CoP-4

C. CoP-3

D. CoP-5

Answer: C



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168. Global warming can be controlled by:

A. Increasing deforestation , slowing down the growth of human population

B. Incerasing deforestation , reducing efficiency of energy usuage.

C. Reducing deforestation , cutting down use of fossil fuel .

D. Reducing reforestation, increasing the use of fossil fuel

Answer: C



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

A. 1985

B. 1990

C. 1975

D. 1981

Answer: D



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170. The zone of atmosphere in which the ozone layer is present is called: (A) Troposphere (B) Ionosphere (C) Mesosphere (D) Stratosphere

A. Troposphere

B. Ionosphere

C. Mesosphere

D. Stratosphere

Answer: D



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

A. Particulate matter of the size 2.5 micrometer or less

B. Gases like sulphur dioxide

C. Particular matter of the size 5 micrometer or
above

D. Gases like ozone and methane

Answer: B



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

A. water is highly polluted

B. water is less polluted

C. consumption of organic matter in the water is
higher by the microbas

D. water is pure

Answer: A



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173. The UN Conference of Parties on climate in the
year 2011 was held in:

A. South Africa

B. Peru

C. Qatar

D. Poland

Answer: A



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174. Rachel Carson's famous book " Silent Spring " is related to

A. noise pollution

B. population explosion

C. ecosystem management

D. pesticide pollution

Answer: D



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175. 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. Reduced Immune System

B. Damage to eyes

C. Increased liver cancer

D. Increased skin cancer

Answer: C



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176. The UN conference of Parties on climate change in the year 2012 was held in

A. Durban

B. Doha

C. Lima

D. Warsaw

Answer: B



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

A. SO_2 and NO_2

B. SO_3 and CO

C. CO_2 and CO

D. O_3 and dust

Answer: A



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

A. food

B. light

C. essential minerals

D. oxygen

Answer: D



180. A river with an inflow of domestic sewage rich in organic waste may result in

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

Answer: C



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181. A system of rotating crops with legume or grass pasture to improve soil structure and fertility is called

- A. Contour farming
- B. Strip farming
- C. Shifting agriculture
- D. Ley farming

Answer: D



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

A. Ozone

B. Ammonia

C. Methane

D. Nitrous Oxide

Answer: A



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

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

Answer: C



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184. A lake which is rich in organic waste may result in

- A. Increased population of aquatic organisms due to minerals
- B. drying of the lake due to algal bloom
- C. increased population of fish due to lots of nutrients
- D. mortality of fish due to lack of oxygen

Answer: D



185. The highest DDT concentration in aquatic food chain shall occur in

- A. Phytoplankton
- B. Seagull
- C. Crab
- D. eel

Answer: B



186. 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 productivity.
- D. They have negative impact on agricultural land

Answer: C



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187. Match the items given in Column-I with those in Column II and select the correct option given below

:

Column I

Column II

(A) Eutrophication

(i) UV-B radiation

(B) Sanitary landfill

(ii) Deforestation

(C) Snow blindness

(iii) Nutrient enrichment

(D) Jhum cultivation

(iv) Waste disposal

A. *a b c d*
i ii iv iii

B. *a b c d*
iii iv i ii

C. *a b c d*
i iii iv ii

D. *a b c d*
ii i iii iv

Answer: B

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188. Which of the following is a secondary pollutant
? (A) O_3 (B) SO_2 (C) CO_2 (D) CO

A. O_3

B. SO_2

C. CO_2

D. CO

Answer: A

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189. In stratosphere , which of the following element acts as a catalyst in degradation of ozone and release of molecular oxygen ? (A) Oxygen (B) Fe (C) Cl (D) Carbon

A. Oxygen

B. Fe

C. Cl

D. Carbon

Answer: C



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190. Would Ozone Day is celebrated on

- A. 22nd April
- B. 16th September
- C. 21st April
- D. 5th June

Answer: B



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Check Your Concept Organisms And Population

1. Opuntia is a mesophytic plant.



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2. Female mosquito is not considered as a parasite.



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3. The number of births during a period in the population that are added to the initial density is called natality.



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4. Organisms can live in pressure greater than 100 times the normal pressure.



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5. All organisms can not tolerate a wide range of salinities.



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6. A stage of suspended development is called Diapause.



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7. Temporary moving from the the stressful habitat to a more hospitable area and return when stressful period is over is known as migration.



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8. Both species lose in competition.



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[Check Your Concept Ecosystem](#)

1. Earth is an open system regarding matter.



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2. Maximum biomass occurs in temperate forests.



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3. Savannas are tropical rain forests.



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4. Lions and wolves occupy the same trophic level



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5. Pyramid of numbers in pond ecosystem is inverted.



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6. Humans serves as a reservoir of nutrients.



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7. In oceans productivity is generally limited by nitrogen.



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8. Secondary productivity is the rate of formation of new organic matter by consumers.



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9. Vertical distribution of different species occupying different levels is called stratification.



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Check Your Concept Biodiversity

1. National parks are reserved for the conservation of animals only.



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2. Fourteen Biosphere reserve have been planned in india.



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3. Deforestation makes floods and droughts more frequent.



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4. The term biodiversity was proposed by W.G. Rosen in 1985.



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5. The group fungi has more species than all the vertebrate species combined.



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 [Watch Video Solution](#)

6. Deforestation does not lead to alternation of local weather conditions.

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7. Sacred groves are found in

- A. Rajasthan
- B. Western Ghats of Kerala.
- C. Himachal Pradesh
- D. all of these

Answer: T



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8. The historic Convention of Biological Diversity was held in 1990 at Rio de Janeiro.



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9. World Summit on Sustainable Development was held in 2002 at Johannesburg.



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10. More than 1.5 million species have been recorded in the world .



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11. Sacred forests are traditional protected area.



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12. Biodiversity increases from equator to poles.



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13. Exotic species have a large impact in island ecosystems.



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14. National parks are reserved for the conservation of animals only.



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Check Your Concept Environmental Issues Pollution

1. The natural ageing of a lake is called biomagnification.



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2. Free-floating algae are called algal blooms.



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3. The Environment Act was passed in 1984.



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4. The particulate matter can be removed by catalytic convertor.



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5. The Water Act was passed in 1974.



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6. Solid waste refer to anything that goes out in trash.



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7. e-wastes refers to radioactive waste.



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