



BIOLOGY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

ENVIRONMENTAL ISSUES

Exercise

1. 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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2. 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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3. The highest DDT concentration in aquatic food chain shall occur in:

A. phytoplankton

B. seagull

C. crab

D. eel

Answer: B



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4. 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



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

A. Lichens

B. Conifers

C. Algae

D. Fungi

Answer: A



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7. 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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8. 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: C



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9. The UN Conference of Parties on climate change in the year 2012 was held at:

A. Durban

B. Doha

C. Lima

D. Warsaw

Answer: B



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10. The zone of atmosphere in which the ozone layer is present is called:

A. ionosphere

B. mesosphere

C. stratosphere

D. troposphere

Answer: C



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11. 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: A



12. 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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13. The Air Prevention and Control of Pollution

Act came into force in:

A. 1975

B. 1981

C. 1985

D. 1990

Answer: B



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14. Kyoto Protocol was endorsed at:

A. CoP-3

B. CoP-5

C. CoP-6

Answer: A



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

A. birds stopped laying eggs

B. earthworms in the area got eradicated

C. cobras were feeding exclusively on birds

D. many of the birds laid eggs, that did no hatch

Answer: D



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

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

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

C. Greenhouse effect is a natural phenomenon

D. Eutrophication is a natural phenomenon in freshwater bodies

Answer: B



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17. Measuring Biochemical Oxygen Demand

(BOD) is a method used for:

A. estimating the amount of organic matter in sewage water

B. working out the efficiency of oil driven automobile engines

C. measuring the activity of *Saccharomyces cerevisiae* in producing curd on a commercial scale

D. working out the efficiency of RBCs about
their capacity to carry oxygen

Answer: A



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18. Domestic sewage of large cities

A. has a high BOD as it contains both
aerobic and anaerobic bacteria

B. is processed by aerobic and then anaerobic bacteria in the secondary treatment in Sewage Treatment Plants (STPs)

C. when treated in STPs does not really require the aeration step as the sewage contains adequate oxygen

D. has very high amounts of suspended solids and dissolved salts

Answer: B



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19. Which one of the following pairs of gases are the major cause of 'Greenhouse effect'?

A. CO_2 and CO

B. CFCs and SO_2

C. CO_2 and N_2O

D. CO_2 and O_3

Answer: C



20. Secondary sewage treatment is mainly a

A. mechanical process

B. chemical process

C. biological process

D. physical process

Answer: C



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

A. Thousands of human being died

B. Radioactive fall out engulfed Bhopal

C. It took place in the night of December
23, 1984

D. Methyl isocyanate gas leakage took
place

Answer: D





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22. dN 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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23. The two gases making highest relative contribution to the greenhouse gases are:

A. CO_2 and CH_4

B. CH_4 and NO_2

C. CFCs and N_2O

D. CO_2 and N_2O

Answer: A



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

- A. lipid soluble
- B. moderately toxic
- C. non-toxic to aquatic animals
- D. water soluble

Answer: A



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25. Montreal protocol aims at:

- A. reducing of ozone depleting substances
- B. biodiversity conservation
- C. control of water pollution
- D. control of CO_2

Answer: A



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

A. remains unchanged when algal bloom

occurs

B. has no relationship with concentration

of oxygen in the water

C. gives a measure of Salmonella in the

water

D. increases when sewage gets mixed with
river water

Answer: D



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

A. Rio de Janerio Conference

B. Montreal Protocol

C. Kyoto Protocol

D. Vienna Convention

Answer: B



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

A. compulsory mixing of 20% ethyl alcohol with petrol and 20% biodiesel with diesel

B. compulsory PUC (Pollution Under Control) certification of petrol driven vehicles, which tests for carbon monoxide and hydrocarbons

C. permission to use only pure diesel with a maximum of 500 ppm sulphur as fuel for vehicles

D. use of non-polluting Compressed

Natural Gas (CNG) only as fuel by all

buses and trucks

Answer: B



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

A. grasslands

B. forests

C. livestock

D. wet lands

Answer: B



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30. 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. CFCs 14%, CH_4 20%

B. CO_2 40%, CFCs 30%

C. N_2O 6%, CO_2 86%

D. CH_4 20%, N_2O 18%

Answer: A



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31. 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. 2.5 or less

B. 1.5 or less

C. 1.0 or less

D. 5.2 or less

Answer: A



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

(i) Lots of urea and phosphate fertilisers were used in the crops in the nearby fields.

(ii) The croplands of the village were fertilised fields rich in nitrate and phosphate.

(iii) The lake water turned green and stinky.

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

A. II, III

B. III, IV

C. I, III

D. I, II

Answer: D



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

A. Sludge worms

B. Blood worms

C. Stone flies

D. Sewage fungus

Answer: C



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

A. SO_2

B. NO_x

C. SPM

D. CO

Answer: C



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35. In which one of the following, the BOD (Biochemical Oxygen Demand) of sewage (S), distillery effluent (DE), paper mill effluent (PE)

and sugar mill effluent (SE) have been arranged in ascending order ?

A. $SE < S < PE < DE$

B. $SE < PE < S < DE$

C. $PE < S < SE < DE$

D. $S < DE < PE < SE$

Answer: D



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36. Photochemical smog pollution does not contain

A. ozone

B. nitrogen dioxide

C. carbon dioxide

D. PAN (Peroxy Acyl Nitrate)

Answer: C



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

A. 1986

B. 1987

C. 1988

D. 1985

Answer: B



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

A. < 3.0 ppm

B. < 10 ppm

C. < 100 ppm

D. < 30 ppm

Answer: B



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39. Which one of the following pairs is mismatched?

A. Biomass burning - Release of CO_2

B. Fossil fuel burning - Release of CO_2

C. Nuclear power - Radioactive wastes

D. Solar energy - Greenhouse effect

Answer: D



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

- A. Phenyl
- B. Chloramine
- C. Chlorine
- D. Ozone

Answer: A



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41. Recently government of India has allowed mixing of alcohol in petrol. What is amount of alcohol permitted for mixing in petrol

A. 2.5 %

B. 10 – 15 %

C. 10 %

D. 5 %

Answer: D



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

A. $20\mu g / 100mL$

B. $30\mu g / 100mL$

C. $4 - 6\mu g / 10mL$

D. $10\mu g / 100mL$

Answer: B



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43. Identify the correctly matched pair:

A. Montreal protocol - Global warming

B. Kyoto protocol - climate change

C. Ramsar convention - Ground water
pollution

D. Basal convention - Biodiversity
conservation

Answer: B



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

- A. reacted with DDT
- B. reacted with ammonia
- C. reacted with CO_2
- D. reacted with water

Answer: D



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45. if by radiation all nitrogenase enzyme is inactivated, then there will be no

A. fixation of nitrogen in legumes

B. fixation of atmospheric nitrogen

C. conversion from nitrate to nitrite in legumes

D. conversion from ammonium to nitrate in soil

Answer: A



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46. Fluoride pollution initially affects

A. teeth

B. kidney

C. brain

D. heart

Answer: A



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47. 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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48. What is BOD ?

A. The amount of O_2 utilised by organisms
in water

B. The amount of O_2 utilised 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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49. What is the intensity of sound during normal conversation?

A. 0.20 dB

B. 30-60 dB

C. 70-90 dB

D. 120-150 dB

Answer: B



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50. Which of these is a pollution related occupational health hazard?

A. Fluorosis

B. Leprosy

C. Phenumoniosis

D. Silicosis

Answer: D



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51. Which of the following is a secondary air pollutant?

A. Aerosol

B. CO

C. PAN

D. CO_2

Answer: C



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52. Greenhouse effect refers to

- A. production of cereals
- B. cooling of earth
- C. trapping of UV rays
- D. warming of earth

Answer: D



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53. Relative Biological Effectiveness (RBE)

usually refers to damage caused by

- A. low temperature
- B. high temperature
- C. radiation
- D. pollution

Answer: C



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54. *DDT* is

- A. a non-degradable pollutant
- B. an antibiotic
- C. a biodegradable pollutant
- D. not a pollutant

Answer: A



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

A. potassium isocyanate

B. sodium monoxide

C. sodium thiocyanate

D. methyl isocyanate

Answer: D



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56. Which important greenhouse gas other than methane is liberated from agriculture fields?

A. Arsine

B. Sulphur dioxide

C. Ammonia

D. Nitrous oxide

Answer: D



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57. Carbon monoxide is pollutant as it:

- A. it reacts with O_2
- B. it inhibits glycolysis
- C. it reacts with haemoglobin
- D. it makes nervous system inactive

Answer: C



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58. If there was no carbon dioxide in the Earth's atmosphere, 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 the amount of oxygen in the atmosphere

Answer: B





59. Sewage treatment process in which part of decomposer bacteria is recycled into starting of the process is called :

- A. cyclic treatment
- B. primary treatment
- C. activated sludge treatment
- D. tertiary treatment

Answer: C



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60. The supersonic jets cause pollution by thinning of:

A. CO_2 layer

B. SO_2 layer

C. O_2 layer

D. O_3 layer

Answer: D



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61. Which one of the following organism is used as indicator of water quality ?

A. Beggiatoa

B. Chlorella

C. Azospirillum

D. Escherichia

Answer: D



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62. Phosphate pollution is caused by

- A. phosphate rock only
- B. agricultural fertilisers only
- C. sewage and phosphate rocks
- D. sewage and agricultural fertilisers

Answer: D



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63. In the coming years, skin related disorders will be more common due to :

- A. air pollution
- B. use of detergents
- C. water pollution
- D. depletion of ozone layer

Answer: D



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

A. 0.0314 %

B. 0.34 %

C. 3.34 %

D. 4 %

Answer: A



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65. Ozone hole is maximum over

A. India

B. Antarctica

C. Europe

D. Africa

Answer: B



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66. The major contributor of green-house gases to the atmosphere is

A. Russia

B. USA

C. Germany

D. Brazil

Answer: B



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67. The worst environmental hazards were created by accidents in nuclear power plant and MIC gas tragedy respectively

A. Russia in 1990 and Bhopal in 1986

B. Ukrain in 1988 and USA in 1984

C. Bhopal in 1984 and Russia in 1990

D. Ukrain in 1986 and Bhopal in 1984

Answer: D



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68. Sewage drained into water bodies kill fishes because

A. excessive carbon dioxide is added to water

B. it gives off a bad smell

C. it removes the food eaten by fish

D. it increases competition with fishes for dissolved oxygen

Answer: D



69. In Minamata Bay of Japan, the animals which remained free from Minamata disease, are

A. pigs

B. rabbits

C. dogs

D. cats

Answer: B





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70. The Taj Mahal is threatened due to the effect of

A. oxygen

B. hydrogen

C. chlorine

D. sulphur dioxide

Answer: D



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

- A. increase
- B. decrease
- C. sharply decrease
- D. remain unchanged

Answer: A



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72. Sounds above what level are considered hazardous noise pollution?

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

Answer: B



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

A. phytoplankton

B. sea gull/birds

C. crab

D. eel

Answer: B



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74. Atmosphere of big cities is polluted most by a)Automobile exhausts b)Radioactive fall out c)Household waste d)Pesticide residue

A. automobile exhausts

B. pesticide residue

C. household waste

D. radioactive fall-out

Answer: A



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75. A disease caused by eating fish contaminated by industrial waste, containing mercury compounds, is called as

- A. Minamata disease
- B. Bright's disease
- C. Hashimoto's disease
- D. Osteosclerosis

Answer: A



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76. Ultraviolet radiations from sunlight causes a reaction that produces:



Answer: A



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77. Most hazardous metal pollutant of automobile exhausts is :

A. mercury

B. cadmium

C. lead

D. copper

Answer: C



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78. Domestic waste mostly constitute:

A. non-biodegradable pollution

B. biodegradable pollution

C. effluents

D. air pollution

Answer: B



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79. Green-house effect is warming due to

A. infra-red rays reaching earth

B. moisture layer in atmosphere

C. increase in temperature due to increase
in carbon dioxide concentration of
atmosphere

D. ozone layer of atmosphere

Answer: C



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80. Major aerosol pollutant in jet plane emission is

A. sulphur dioxide

B. carbon monoxide

C. methane

D. chlorofluoro-carbons

Answer: D



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81. Which one is not a pollutant normally ?

A. Hydrocarbons

B. Carbon dioxide

C. Carbon monoxide

D. Sulphur dioxide

Answer: B



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82. Acid rains are produced by

A. excess NO_2 and SO_2 from burning fossil fuels

B. excess production of NH_3 by industry and coal gas

C. excess release of carbon monoxide by incomplete combustion

D. excess formation of CO_2 by combustion and animal respiration

Answer: A



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