



BIOLOGY

BOOKS - MBD -HARYANA BOARD

ENVIRONMENTAL ISSUES

Example

1. What are various constituents of domestic sewage? Discuss the effects of sewage discharge on a river.



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2. List all the wastes that you generate, at home, school or during your trips to other places, could you very easily reduce. Which would be difficult or rather impossible to reduce?



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3. Discuss the causes and effects of global warming. What measures need to be taken to control global warming?



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4. Match the items in column A and Column B:

Column A	Column B
(i) Catalytic converter	(a) Particulate matter
(ii) Electrostatic precipitator	(b) CO and Nitrogen oxides
(iii) Earmuffs	(c) High level noise
(iv) Land fills	(d) Solid waste.



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5. Write critical notes on:

Eutrophication Or Algal bloom.



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6. Write critical notes on:

Biological magnification.



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7. A crane had DDT level as 5 ppm in its body.

What would happen to the population of such

birds?

Explain giving reasons.



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8. Why ozone hole forms over Antarctica? How will enhanced ultraviolet Radiations affect us?



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9. Discuss the role of women and communities in protection and conservation of forests.



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10. What measures, as an individual, you would take to reduce environmental pollution?



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11. Discuss briefly the following:

Radioactive wastes



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12. Discuss briefly the following:

Defunct ships and e-wastes.



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13. Discuss briefly the following:

Municipal solid wastes.



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14. What initiatives were taken for reducing vehicular air pollution in Delhi? Has the air quality improved in Delhi?



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15. Explain any three measures which will control vehicular air pollution in INDIAN cities.



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16. Discuss briefly the following:

Greenhouse effect



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17. Discuss briefly the following:

Catalytic converter



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18. Discuss briefly the following:

Ultraviolet B.



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19. Define pollution.



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20. What are pollutants?



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21. Classify pollution on the basis of origin.



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22. Which term is used for pollutants that are degraded by natural means?



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23. Air pollutant photochemical oxidants include



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24. What are secondary pollutants? Mention 2 examples.



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25. What are the metals used in catalytic converters which act as catalyst?



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26. Expand CNG and BOD.



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27. Why is CNG better than diesel?



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28. Name the city in our country where entire public transport runs on CNG.



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29. Expand CFC and DU.



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30. What are Dobson units?



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31. What is utrophication?



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32. What term is used for inflammation of cornea due to high dose of UV-B?



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33. Which chemicals are responsible for greenhouse effect?



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34. Expand HCs and VOCs ?



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35. Give the full form of BOD.



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36. What is BOD of weak organic wastes water body?



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37. What is Biotic index?



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38. Give the noise value of moderate conversation.



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39. Which sound causes noise pollution?



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40. What is stratospheric O_3 layer?



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41. What is the effect of UV-B radiations on plants?



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42. Name the world's most problematic aquatic weed. What is the nature of the water body in which the weeds grow abundantly?



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43. Which disease is associated with the eating of mercury contaminated fish?



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44. Which disease is associated with eating food contaminated with cadmium?



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45. What is chemical oxygen demand.





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46. Name the disease associated with accumulation of nitrates in human body.



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47. What is air pollution? List various causes of air pollution.



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48. What are the two main sources of air pollution?



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49. What are the effects of carbon monoxide?



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50. What are effects of air pollution? How can it be minimised?



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51. Write a note on electrostatic precipitator.



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52. How does a scrubber function?



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53. Differentiate primary air pollutants and secondary air pollutants.



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54. What is particulate matter? How does particulate matter affect biological world?



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55. What is acid rain? What are its effects on plants?



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56. Write the effects of hydrocarbons(HCs).



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57. What are aerosols?Write the sources and effects.



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58. What is water pollution?



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59. Make a chart illustrating the kind of water pollutants.



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60. What are the effects of water pollution?



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61. What measures should be taken for disposal of solid wastes?



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62. Write a note on Biological Oxygen Demand(B.O.D).



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63. List sources of soil pollutio.



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64. What is organic farming?



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65. State the consequences fo stratospheric ozone depletion.



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66. What are two serious problems of the used nuclear energy.



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67. Show the relative contribution of greenhouse gases to total global warming.



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68. List the consequences of deforestation.



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69. List four laws which enforce control of pollution.



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70. Write any two differences between Incineration and Pyrolysis.



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71. Define pollution. Compare the biodegradable and non-biodegradable pollutants.



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72. What is photochemical smog? How does smog affect the biological world?



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73. Briefly explain noise pollution.



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74. List various measures for control of noise pollution.



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75. What is soil pollution?



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76. What do you mean by algal bloom?



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77. What is the relationship between BOD and DO? What is the ill-effect of increase of BOD in water body?



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78. Name the major atmospheric pollutants and their sources.



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79. List the control measures for minimising air pollution.



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80. Write effects of water pollution.



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Exercise

1. Fill in the lanks with suitable words:

secondary treattment of polluted water are
..... and activated sludge method.



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2. Fill in the lanks with suitable words:

Increase in concentration of soluble salts i the soil is called.....



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3. Fill in the lanks with suitable words:

Aforestation can check the advancement of..... .



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4. Fill in the lanks with suitable words:

..... radiations have high penetrability.



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5. Fill in the lanks with suitable words:

DDT is a serious pollutant as it is a
pollutant and undergoes



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6. State True or False:

The SO_2 causes asphyxial death due to oxygen starvation.



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7. State True or False:

Acid rain caused due to oxides of nitrogen and sulphur.



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8. State True or False:

Ozone destroys the crops of potato, alfalfa and spinach.



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9. State True or False:

The UV rays and IR rays are ionising radiations.



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10. State True or False:

The photochemical smog contains PAN and Ozone.



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11. Coin one word for the following statements:

Discarded computer parts like monitors ,key boards,mouse tec.



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12. Coin one word for the following statements:

Degradation of organic waste by earthworms.



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13. Coin one word for the following statements:

Solid contents of sewage.



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14. Coin one word for the following statements:

Cleaning of vast areas covered by forests.



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15. Coin one word for the following statements:

Growing of green plants along roadsides to reduce pollution.



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16. Identify the correct matching pair:

A. Basal convention-Biodiversity

conservation

B. Kyoto protocol-Climatic change

C. Montreal protocol-Global warming

D. Ramsar convention-Ground water

pollution

Answer:



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17. Which one of the following pairs is mismatched ?

A. fossil fuel burning - release of CO_2

B. nuclear power-radioactive wastes

C. solar energy-greenhouse effect

D. biomass burning - release of CO_2 .

Answer:



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18. 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. methylmercury in water may cause "Itai-Itai" disease.

Answer:



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

A. acidity

B. aridity

C. salinity

D. metal toxicity.

Answer:



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

A. chlorine

B. ozone

C. chloramine

D. phenyl.

Answer:



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21. Greenhouse effect is caused by

A. Green plants

B. Infrared rays

C. UV rays

D. X-rays.

Answer:



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22. Which of the following will not be found in polluted water?

- A. Blue-green algae
- B. Larvae of stonefly
- C. Water hyacinth
- D. Sewage fungi.

Answer:



23. One of these contributes maximum to air pollution?

A. INDIA

B. USA

C. Russia

D. Britain.

Answer:



24. Photochemical smog causes:

A. typhoid

B. asthma and Bronchitis

C. influenza

D. diarrhoea.

Answer:



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25. In a living ecosystem at which level, the concentration of DDT is the most:

- A. the place where DDT containing effluents mix with the water source
- B. the planktons of a water body
- C. within the carnivorous fishes of the water body
- D. in the birds which feed on the fishes of the water body.

Answer:



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26. Due to water pollution:

- A. all kinds of aquatic plants and animals are destroyed
- B. increase in the number of organisms which feed on bacteria
- C. no effect on the number of organisms
- D. increase in number of various type of organisms.

Answer:



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27. Photochemical smog contains:

- A. PAN
- B. Ozone
- C. Nitrogen Dioxide
- D. All of the above.

Answer:



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