

EXERCISE # 1

A. Single Choice Type Questions

- Q.1** Solar radiations heat up -
(A) land faster than the water bodies
(B) land slower than the water bodies
(C) equally both land and water bodies
(D) neither land nor water bodies
- Q.2** Which gas plays a major role in global warming ?
(A) Carbon monoxide (B) Nitrous oxide
(C) Carbon dioxide (D) Sulphur dioxide
- Q.3** Which of the following is incorrect about effects of acid rain ?
(i) Acid rain increases the acidity of soil and water
(ii) Acid rain does not affect painted surfaces and metals
(iii) Acid rain is due to the presence of H_2SO_4 and HNO_3 in rain water with a pH of less than 5
(iv) Taj Mahal at Agra is facing threat due to corrosive action of acid rain
(A) (i) and (ii) (B) (i) and (iii)
(C) only (ii) (D) (iii) and (iv)
- Q.4** Which of the following are not harmful effects of air pollution ?
(i) Respiratory problems such as allergy, sneezing, bronchitis etc
(ii) Algal bloom
(iii) Biomagnification of heavy metals in food chains
(iv) Green house effect
(A) (i) and (ii) (B) (i) and (iii)
(C) (iii) and (iv) (D) (i) and (iv)
- Q.5** Air is a mixture of -
(A) Nitrogen, oxygen, methane, carbon dioxide
(B) Nitrogen, carbon dioxide, oxygen, carbon monoxide
(C) Nitrogen, oxygen, carbon monoxide, water vapours
(D) Nitrogen, oxygen, carbon dioxide, water vapours

- Q.6** Which of the following is also called 'marsh gas' ?
(A) Methane
(B) Carbon dioxide
(C) Chlorofluoro carbons
(D) Sulphur dioxide

B. Multiple Choice Type Questions

- Q.7** The atmosphere of the earth is heated by radiations which are mainly -
(A) radiated by the sun
(B) re-radiated by land
(C) re-radiated by water
(D) re-radiated by land and water
- Q.8** If there were no atmosphere around the earth, the temperature of the earth will -
(A) increase
(B) go on decreasing
(C) increase during day and decrease during night
(D) be unaffected
- Q.9** One of the following factors does not lead to soil formation in nature -
(A) the sun (B) water
(C) wind (D) polythene bags
- Q.10** The two forms of oxygen found in the atmosphere are -
(A) water and ozone
(B) water and oxygen
(C) ozone and oxygen
(D) water and carbon dioxide
- Q.11** The process of nitrogen-fixation by bacteria does not take place in the presence of -
(A) molecular form of hydrogen
(B) elemental form of oxygen
(C) water
(D) elemental form of nitrogen
- Q.12** Rainfall patterns depends on -
(A) the underground water table
(B) the number of water bodies in an area
(C) the density pattern of human population in an area
(D) the prevailing season in an area

- Q.13** Which of the following is not a green house gas ?
 (A) Methane (B) Carbon dioxide
 (C) Carbon monoxide (D) Ammonia
- Q.14** 'Ozone-hole' means -
 (A) a large sized hole in the ozone layer
 (B) thinning of the ozone layer
 (C) small holes scattered in the ozone layer
 (D) thickening of ozone in the ozone layer
- Q.15** Ozone-layer is getting depleted because of -
 (A) excessive use of automobiles
 (B) excessive formation of industrial units
 (C) excessive use of man made compounds containing both fluorine and chlorine
 (D) excessive deforestation
- Q.16** Which of the following is a recently originated problem of environment ?
 (A) Ozone layer depletion
 (B) Green house effect
 (C) Global warming
 (D) All of the above
- Q.17** Major source of mineral in soil is the -
 (A) parent rock from which soil is formed
 (B) plants
 (C) animals
 (D) bacteria
- Q.18** Total earth's surface covered by water is -
 (A) 75% (B) 60%
 (C) 85% (D) 50%
- Q.19** Biotic component of biosphere is not constituted by -
 (A) producers (B) consumers
 (C) decomposer (D) air
- Q.20** Oxygen is returned to the atmosphere mainly by -
 (A) burning of fossil fuel
 (B) respiration
 (C) photosynthesis
 (D) fungi
- Q.21** Soil erosion can be prevented by -
 (A) raising forests
 (B) deforestation
 (C) excessive use of fertilizer
 (D) overgrazing by animals
- Q.22** Oxygen is harmful for -
 (A) ferns
 (B) nitrogen fixing bacteria
 (C) Chara
 (D) mango tree
- Q.23** Top-soil contains the following -
 (A) Humus and living organisms only
 (B) Humus and soil particles only
 (C) Humus, living organisms and plants
 (D) Humus, living organisms and soil particles
- Q.24** Choose the correct sequences -
 (A) CO_2 in atmosphere \rightarrow decomposer \rightarrow organic carbon in animals \rightarrow organic carbon in plants
 (B) CO_2 in atmosphere \rightarrow organic carbon in plants \rightarrow organic carbon in animals \rightarrow inorganic carbon in soil
 (C) Inorganic carbonates in water \rightarrow organic carbon in plants \rightarrow organic carbon in animals \rightarrow scavengers
 (D) Organic carbon in animals \rightarrow decomposers \rightarrow CO_2 in atmosphere \rightarrow organic carbon in plants

EXERCISE # 2

A. Very Short Answer Types Questions

- Q.1** Name the common air pollutant which causes depletion of ozone layer.
- Q.2** Name the major green house gas responsible for causing global warming.
- Q.3** Name two common pathogens in polluted water.
- Q.4** Define natural resources.
- Q.5** What percentage of carbon dioxide is present in the atmosphere ?
- Q.6** Define soil.
- Q.7** Why air is called 'breath of life' ?
- Q.8** How would you define air pollution ?
- Q.9** What are detritivores ? Name any one of them.
- Q.10** Which of the following two gases has more affinity for haemoglobin ? (i) Oxygen (ii) Carbon monoxide.

B. Short Answer Types Questions

- Q.11** What are inexhaustible resources ? Give examples.
- Q.12** Define renewable resources ? Give examples.
- Q.13** Name the particles which act as 'nucleus' for water droplets to form around in the atmosphere.

- Q.14** What is rain-water harvesting ?
- Q.15** List main sources of water pollutants ?
- Q.16** What are non-biodegradable substances ?
- Q.17** Name two types of biogeochemical cycles.
- Q.18** Give two examples of nitrifying bacteria.
- Q.19** Name two examples of green house gases which contribute maximum towards global warming.
- Q.20** How do the following contribute to air pollution.
(i) Volcanic eruptions
(ii) Decay of vegetation matter in marshy places.

C. Long Answer Types Questions

- Q.21** Discuss carbon cycle ?
- Q.22** Give an account of nitrogen cycle in the environment ?
- Q.23** Describe various renewable sources of energy ?
- Q.24** How do fossil fuels cause air pollution ?
- Q.25** What are the causes of water pollution ? Discuss how you can contribute in reducing water pollution.