

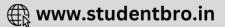
NATURAL RESOURCES

Multiple Choice Questions

- 1. 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
- 2. 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
- **3.** What would happen, if all the oxygen present in the environment is converted to ozone?
 - (a) We will be protected more
 - (b) It will become poisonous and kill living forms
 - (c) Ozone is not stable, hence it will be toxic
 - (d) It will help harmful sun radiations to reach earth and damage many life forms.
- 4. One of the following factors does not lead to soil formation in nature
 - (a) the sun
 - (b) water
 - (c) wind
 - (d) polythene bags
- 5. 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

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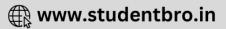
- ${\bf 6} \quad {\rm The\ process\ of\ nitrogen-fixation\ by\ bacteria\ does\ not\ take\ place\ in\ the\ presence\ of\ }$
 - (a) molecular form of hydrogen
 - (b) elemental form of oxygen
 - (c) water
 - (d) elemental form of nitrogen
- 7. Rainfall patterns depend on
 - (a) the underground water table
 - (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
- **8.** Among the given options, which one is not correct for the use of large amount of fertilisers and pesticides?
 - (a) They are eco-friendly
 - (b) They turn the fields barren after some time
 - (c) They adversally affect the useful component from the soil
 - (d) They destroy the soil fertility
- **9**. The nitrogen molecules present in air can be converted into nitrates and nitrites by
 - (a) a biological process of nitrogen fixing bacteria present in soil
 - (b) a biological process of carbon fixing factor present in soil
 - (c) any of the industries manufacturing nitrogenous compounds
 - (d) the plants used as cereal crops in field
- **10.** One of the following processes is not a step involved in the water-cycle operating in nature
 - (a) evaporation
 - (b) transpiration
 - (c) precipitation
 - (d) photosynthesis
- **11.** The term "water-pollution" can be defined in several ways. Which of the following statements does not give the correct definition?
 - (a) The addition of undesirable substances to water-bodies
 - (b) The removal of desirable substances from water-bodies
 - (c) A change in pressure of the water bodies
 - (d) A change in temperature of the water bodies
- **12.** Which of the following is not a green house gas?
 - (a) Methane
 - (b) Carbon dioxide
 - (c) Carbon monoxide
 - (d) Ammonia

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- **13.** Which step is not involved in the carbon-cycle?
 - (a) Photosynthesis
 - (b) Transpiration
 - (c) Respiration
 - (d) Burning of fossil fuels
- 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
- **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.
- **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
- **17.** When we breathe in air, nitrogen also goes inside along with oxygen. What is the fate of this nitrogen?
 - (a) It moves along with oxygen into the cells
 - (b) It comes out with the CO_2 during exhalation
 - (c) It is absorbed only by the nasal cells
 - (d) Nitrogen concentration is already more in the cells so it is not at all absorbed.
- 18. 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.
- **19.** Choose the correct sequences
 - (a) CO $_2$ in atmosphere \rightarrow decomposers \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 \to organic carbon in plants \to organic carbon in animals \to scavengers
 - (d) Organic carbon in animals \rightarrow decomposers \rightarrow $\rm CO_2$ in atmosphere \rightarrow organic carbon in plants

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- **20.** Major source of mineral in soil is the
 - (a) parent rock from which soil is formed
 - (b) plants
 - (c) animals
 - (d) bacteria

21. Total earth's surface covered by water is

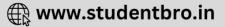
- (a) 75%
- (b) 60%
- (c) 85%
- (d) 50%
- 22. Biotic component of biosphere is not constituted by
 - (a) producers
 - (b) consumers
 - (c) decomposer
 - (d) air
- 23. An increase in carbondioxide content in the atmosphere would not cause
 - (a) more heat to be retained by the environment
 - (b) increase in photosynthesis in plants
 - (c) global warming
 - (d) abundance of desert plants
- 24. Oxygen is returned to the atmosphere mainly by
 - (a) burning of fossil fuel
 - (b) respiration
 - (c) photosynthesis
 - (d) fungi
- 25. Low visibility during cold weather is due to
 - (a) formation of fossil fuel
 - (b) unburnt carbon particles or hydrocarbons suspended in air
 - (c) lack of adequate power supply
 - (d) none of these
- 26. Growth of Lichens on barren rocks is followed by the growth of
 - (a) moss
 - (b) ferns
 - (c) gymnosperms
 - (d) algae
- **27.** Marked temperature changes in aquatic environment can affect
 - (a) breeding of animals
 - (b) more growth of aquatic plants
 - (c) process of digestion in animals
 - (d) availability of nutrients.

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- **28.** Soil erosion can be prevented by
 - (a) raising forests
 - (b) deforestation
 - (c) excessive use of fertilizer
 - (d) overgrazing by animals
- 29. What happens when rain falls on soil without vegetational cover?
 - (a) Rain water percolates in soil efficiently
 - (b) Rain water causes loss of surface soil
 - (c) Rain water leads to fertility of the soil
 - (d) Rain water does not cause any change in soil
- 30. Oxygen is harmful for
 - (a) ferns
 - (b) nitrogen fixing bacteria
 - (c) chara
 - (d) mango tree

Short Answer Questions

- 31. Rivers from land, add minerals to sea water. Discuss how?
- **32**. How can we prevent the loss of top soil?
- 33. How is the life of organisms living in water affected when water gets polluted?
- 34. During summer, if you go near the lake, you feel relief from the heat, why?
- **35**. In coastal area, wind current moves from the sea towards the land during day; but during night it moves from land to the sea. Discuss the reason.
- 36. Following are a few organisms

(a) lichen (b) mosses (c) mango tree (*d*) cactus Which among the above can grow on stones; and also help in formation of soil? Write the mode of their action for making soil.

- **37.** Soil formation is done by both abiotic and biotic factors. List the names of these factors by classifying them as abiotic and biotic?
- **38.** All the living organisms are basically made up of C, N, S, P, H and O. How do they enter the living forms? Discuss.
- **39.** Why does the percentage of gases like oxygen, nitrogen and carbon dioxide remain almost the same in the atmosphere?
- **40.** Why does moon have very cold and very hot temperature variations eg, from -190°C to 110°C even though it is at the same distance from the sun as the earth is?

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- **41.** Why do people love to fly kites near the seashore ?
- 42. Why does Mathura refinery pose problems to the Taj Mahal?
- **43.** Why do not lichens occur in Delhi whereas they commonly grow in Manali or Darjeeling?
- **44.** Why does water need conservation even though large oceans surround the land masses?
- 45. There is mass mortality of fishes in a pond. What may be the reasons?
- **46.** Lichens are called pioneer colonisers of bare rock. How can they help in formation of soil?
- 47. "Soil is formed by water." If you agree to this statement then give reasons
- 48. Fertile soil has lots of humus. Why?
- **49**. Why step farming is common in hills?
- 50. Why are root nodules useful for the plants?

Long Answer Questions

- **51**. How do fossil fuels cause air pollution?
- **52**. What are the causes of water pollution? Discuss how you can contribute in reducing water pollution.
- **53.** A motor car, with its glass totally closed, is parked directly under the sun. The inside temperature of the car rises very high. Explain why?
- **54.** Justify "Dust is a pollutant" ?
- **55.** Explain the role of the Sun in the formation of soil.
- 56. Carbon dioxide is necessary for plants. Why do we consider it as a pollutant?

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