



SHIKSHA CLASSES

Sub. : Science
Std. IX (CBSE)

Question Paper
Topic : 13. Natural Resources

Total Marks : 30
Time : 1 Hr.

Section A (Each 1 marks)

Q.1 : Which of the following is not a factor responsible for the occurrence of erosion of soil?

- a) Dust storm b) Heavy rains c) Cyclones d) Flood

OR

An inexhaustible resource is -----

- a) Soil b) Minerals c) Solar energy d) Fossil fuels

Q.2 : Air is a mixture of:

- a) Nitrogen, oxygen, carbon monoxide, water vapours
b) Nitrogen, carbon dioxide, oxygen, carbon monoxide
c) Nitrogen, oxygen, methane, carbon dioxide
d) Nitrogen, oxygen, water vapours, carbon dioxide.

OR

Which of the following is not a renewable resource?

- a) Soil b) Minerals c) Forests d) Underground water

For question numbers 3 two statements are given- one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

- a) Both A and R are true, and R is correct explanation of the assertion.
b) Both A and R are true, but R is not the correct explanation of the assertion.
c) A is true, but R is false.
d) A is false, but R is true

Q.3 : **Assertion (A):** Ozone layer works as a shield for earth.

Reason (R): Ozone layer reduces the amount of ultraviolet rays reaching the earth.

Q.4 : **Assertion:** Smog is formed from smoke and fog.

Reason: Smog is an opaque fog. (b)

Q.5 : **Assertion:** There is an adverse effect of pollutants on Taj Mahal.

Reason: Discolorations of Taj Mahal is due to nitrogen oxides. (c)

Acid rain is the rainwater which contains excessive amount of acids i.e. sulphuric acid and nitric acid. These acids are formed in the atmosphere by the reaction of oxides of sulphur and nitrogen with water. The Oxides of sulphur and nitrogen are produced by combustion of fossil fuels in industries, automobiles, thermal power plants and domestic appliances etc. The sulphur and nitrogen, present in fossil fuels form these oxides by reacting with oxygen of air by the process of combustion.

i) In acid rain which acid is present in excessive amount?

- a) Sulphuric Acid b) nitric acid c) Both a and b d) None of these

ii) The Oxides of sulphur and nitrogen are formed by the process of _____

- a) Combustion b) by reacting with water
c) Both a and b d) none of these

iii) Write the name of the pollution due to which acid rain fall?

- a) Air b) water c) soil d) None of these

Q.7 : 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.8 : 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.9 Among the given options, which one is not correct for the use of a large amount of fertilisers and pesticides?

- a) They are eco-friendly b) They turn the fields barren after some time
c) They adversely affect the useful component from the soil
d) They destroy the soil fertility

Q.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

Q.11 : 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.12: 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.13 : One of the following factors does not lead to soil formation in nature

- a) the sun b) water c) wind d) polythene bags

Q.14 : 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

Section B (Each 2 marks)

Q.15 : Define weathering. Write the different means which cause weathering.

Q.16 : Combustion of fossil fuels results in the increase of suspended particles in the air. What are these particles ?

OR

Define biogeochemical cycle.

Section C (Each 3 marks)

Q.17 : With the help of a labelled diagram show the cycling of carbon in nature.

What are the two ways in which carbon dioxide is fixed in the environment?

OR

Write a short note on ozone layer and effect of ozone depletion.

Q.18 : Explain the following terms:

- i) Nitrogen fixation ii) Nitrification iii) Denitrification.

Section D (5 marks)

Q.19 : What are the causes of water pollution? Discuss how you can contribute in reducing water pollution.

OR

How does nitrogen fixation take place during lightning ? How do plants make use of the nitrates and nitrites present in soil ?

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