



KINETICS

We Nurture The Future

IIT-JEE | Medical | Foundations

Natural Resources

Question 1.

What is the constitution of nitrogen in our atmosphere?

- (a) 28
- (b) 78
- (c) 55
- (d) 92

▼ [Answer](#)

Answer: (b) 78

Question 2.

Which of the following bacteria is responsible for nitrogen fixation?

- (a) Pseudomonas
- (b) Nitrosomonas
- (c) Rhizobium
- (d) None of these

▼ [Answer](#)

Answer: (c) Rhizobium

Question 3.

One of the following factors does not lead to soil formation in nature.

- (a) The sun
- (b) Water
- (c) Wind
- (d) Polythene bags

▼ [Answer](#)

Answer: (d) Polythene bags

Question 4.

Which step is not involved in the carbon cycle?

- (a) Photosynthesis
- (b) Transpiration
- (c) Respiration
- (d) Burning of fossil fuels

▼ [Answer](#)

Answer: (b) Transpiration

Question 5.

The main function of the Rhizobium bacteria is:

- (a) To convert free nitrogen into nitrates
- (b) To convert the nitrates into nitrogen
- (c) Decomposition of ammonium salts
- (d) Denitrification

▼ [Answer](#)

Answer: (a) To convert free nitrogen into nitrates

Question 6.

Soil pollution mostly occurs by:

- (a) Water
- (b) Fertilizers and insecticides
- (c) Mining
- (d) Crops

▼ [Answer](#)

Answer: (b) Fertilizers and insecticides

Question 7.

What is the percentage constitution of carbon dioxide in the atmosphere of Venus and Mars?

- (a) 95 – 97%
- (b) 20 – 22%
- (c) 35 – 40%
- (d) 70 – 72%

▼ [Answer](#)

Answer: (a) 95 – 97%

Question 8.

Oxygen is found in the elemental form in the atmosphere to the extent of:

- (a) 78%
- (b) 38%
- (c) 21%
- (d) 95%

▼ [Answer](#)

Answer: (c) 21%

[Fill in the Blanks.](#)

Question 9.

In Venus and Mars, the major component of the atmosphere is found to be _____

▼ Answer

Answer: carbon dioxide

Question 10.

Air, water, and soil are the _____ component of the biosphere.

▼ Answer

Answer: abiotic

Question 11.

Biogeochemical cycles always _____ in nature.

▼ Answer

Answer: run/operate

Question 12.

Carbon dioxide is one of the _____

▼ Answer

Answer: greenhouse gas

Question 13.

Oxygen is returned to the atmosphere through only one major process, that is _____

▼ Answer

Answer: photosynthesis

Question 14.

Elemental oxygen is normally found in the form of a _____ molecule.

▼ Answer

Answer: diatomic

Question 15.

Uneven heating of air over land and water bodies causes _____

▼ Answer

Answer: winds

Question 16.

The most important green house gas is _____

▼ [Answer](#)

Answer: CO₂

Question 17.

Chlorofluorocarbon is destroying _____ layer.

▼ [Answer](#)

Answer: ozone

Question 18.

Apart from microbes _____ are helpful in the humus formation.

▼ [Answer](#)

Answer: earthworms

[True/False.](#)

Question 19.

Freshwater is found frozen in the ice-caps at the two poles and on snowcovered mountains.

▼ [Answer](#)

Answer: True

Question 20.

Rainfall patterns depend on the prevailing wind patterns in an area.

▼ [Answer](#)

Answer: True

Question 21.

The total momentum of an isolated system is not conserved.

▼ [Answer](#)

Answer: False

Question 22.

The ozone layer protects us from ultraviolet radiation.

▼ [Answer](#)

Answer: True

Question 23.

The decomposition of organic substances causes air pollution.

▼ [Answer](#)

Answer: False

Question 24.

During the day, the direction of the wind would be from the sea to the land.

▼ [Answer](#)

Answer: True

Question 25.

Organisms called lichens are found to be very sensitive to the levels of contaminants like sulphur dioxide in the air.

▼ [Answer](#)

Answer: True

[Match the Column.](#)

Question 26.

A	B
1. Ozone layer	(i) 21%
2. Nitrogen	(ii) Rhizobium
3. Amount of CO ₂ in atmosphere	(iii) O ₃
4. Nitrogen Fixation	(iv) 0.03%
5. Amount of oxygen	(v) 78%

▼ [Answer](#)

Answer:

A	B
1. Ozone layer	(iii) O ₃
2. Nitrogen	(v) 78%
3. Amount of CO ₂ in	(iv) 0.03%

atmosphere	
4. Nitrogen Fixation	(ii) Rhizobium
5. Amount of oxygen	(i) 21%

Answer in one Word/Sentence.

Question 27.

What is the full name of C.F.C.?

▼ Answer

Answer: Chlorofluorocarbon

Question 28.

Write the chemical (molecular) formula of chlorofluorocarbon (C.F.C.)?

▼ Answer

Answer: CCl_2F_2

Question 29.

What name is given to increase in general temperature of the atmosphere globally due to the activities of mankind?

▼ Answer

Answer: Global warming

Question 30.

What is the chemical formula of ozone?

▼ Answer

Answer: O_3

Question 31.

What is the major factor in deciding the soil structure?

▼ Answer

Answer: Humus

Question 32.

What is the surface temperature of the Moon?

▼ Answer

Answer: -190°C to 110°C
