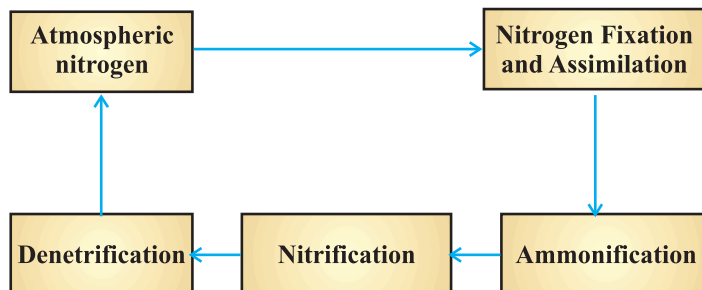


- **Ammonification** : It is the process by which soil bacteria decompose dead organic matter and release ammonia into soil.
- **Nitrification** : It is the process by which ammonia is converted into nitrites and nitrates.
- **Denitrification** : It is the process by which nitrates are converted into atmospheric nitrogen.



A flow chart to show the important stages of Nitrogen Cycle

QUESTIONS

VERY SHORT TYPE QUESTIONS

1. What are the resources present on the earth ?
2. Name two gases of air.
3. Expand the term CFCs.
4. Write the formula of ozone.
5. Which acids are present in acid rain ?
6. Name four water borne diseases.
7. What are the nitrogen-fixing bacteria called ?
8. Name three types of soil.
9. Name the disease that can be caused by UV rays.
10. What is the major source of fresh water ?

SHORT ANSWER TYPE QUESTIONS

1. Draw a neat and labelled diagram of water cycle in nature.
2. How is green house effect related to global warming ? Explain.
3. What are the causes of soil erosion ?
4. Why is water necessary for all organisms ?
5. Write the differences between oxygen and ozone.

LONG ANSWER TYPE QUESTIONS

1. Explain the oxygen cycle.

OR

What are the factors or processes that make soil ?

2. (a) What is the greenhouse effect?
(b) What are the two forms of oxygen found in the atmosphere.
3. (a) What is soil erosion ?
(b) What are the methods of preventing or reducing soil erosion.
4. What are the causes of water pollution? Discuss how you can contribute in reducing water pollution.
5. (i) What are the effects of ozone layer depletion.
(ii) Name the compound which damages the ozone layer.
6. (i) Explain the oxygen cycle.
(ii) Why is water necessary for all organisms.

OBJECTIVE TYPE QUESTIONS

1. Green plants convert _____ into glucose in the Presence of Sunlight.
2. Oxygen is harmful for _____ bacteria.
3. Soil is formed from parent rock over long period of time by the process called _____
4. Decomposition of organic wastes in water causes _____
5. CO₂ absorbs some of the _____ that radiates from the surface of Earth to space.
(a) Ozone (b) Heat (c) UV rays (d) Smog.
6. The process of evaporation, transpiration and precipitation are known for _____
(a) Carbon cycle (b) nitrogen or water cycle
(c) Nitrogen cycle. (d) all of these
7. Life cannot be sustain on Mars and venus because of _____
(a) Oxygen (b) Carbon dioxide
(c) Nitrogen (d) Ozone
8. Nitrosomonans changes _____
(a) NH₃ to NO₃ (b) NH₃ to NO₂
(c) NO₂ to NO₃ (d) NO₃ to NH₃

9. Rhizobium is an important _____ bacterium.
(a). Nitrogen fixing (b). Nitrifying
(c). Denitrifying (d). Ammonifying.
10. Smog is a Combination of _____
(a). Fire and Water (b). Smoke and Fog
(c). Water and smoke (d). Air and water
11. CFCs causes _____
(a). Depletion of ozone layer (b). Depletion of CO₂
(c). Acid rain (d). Carbon monoxide poisoning
12. Hydrological cycle is under the control of _____
(a). Grassland (b). Forest (c). Planktons.
(d). Epiphytes.