

Attempt **SIX** Questions in all. **Section-A** is **Compulsory**. Attempt any **FIVE** questions from **Section-B**.

SECTION-A

1- Write short answers to the following questions:

2x5=10

- i) Differentiate between Ligases and Lyases with examples.
- ii) Differentiate between Collidal and True Solutions with examples.
- iii) What is the criteria for an element to be an essential?
- iv) Differentiate between Primary and Secondary Succession with examples.
- v) Define Biogeochemical Cycle. Draw the Nitrogen Cycle.

SECTION-B

2- Explain different Biochemical Reactions of Citric Acid Cycle.

5

3- Write note on discovery, biosynthesis and physiological effects of Ethylene in plants.

5

4- Define Phototropism. Explain its mechanism.

5

5- Write detailed note on different steps of Hill's Reaction.

5

6- Differentiate between Soil Structure and Soil Texture?

What is the Significance of Soil Texture for plant growth?

5

7- Discuss any Three Environmental Problems of Air Pollution.

5

8- Write note on Biological and Physical Structure of a Plant Community.

5

9- What is the role of Ecology in Conservation of natural resources?

5

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