

- Note :-**
- 1) All questions are compulsory.
  - 2) Draw diagrams wherever necessary.

**Q. 1 Write answer of the following questions. (Any 2)**

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- 1) What is shearing stress of wind? Explain How the plant tissues tackle with the shearing stress.
- 2) Give a detailed account of xylem vessels with suitable diagrams.
- 3) Explain different types of vascular bundles.
- 4) What changes take place in a dicot root during its secondary growth?

**Q. 2 Write answer of the following questions. (Any 2)**

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- 1) What is Respiration? Give difference between the aerobic and anaerobic respiration and its significance.
- 2) Describe TCA cycle.
- 3) What is photorespiration? Explain mechanism of photorespiration.
- 4) What are phytochromes? Explain it's role in flowering of SDP plants.

**Q. 3 Write any two answer of the following questions.**

- 1) Give the Raunkier's classification of Growth forms.
- 2) Explain process of chemical weathering of Rock.
- 3) Explain the types of soil on basis of its texture.
- 4) Explain Nitrogen cycle with Diagramatic representation.

**Q. 4 Write short note.**

- 1) Biological weathering of Rock.
- 2) Importance of stratification.
- 3) Terminal oxidation.
- 4) Vernalization.
- 5) Collenchyma.
- 6) Sclerenchyma.

— The End —