

- NOTE: 1. All questions are compulsory.
2. Figures to right indicate marks.
3. Draw labelled diagrams wherever necessary.

Q I Answer the following (Any Two) (20)

- 1) Explain different types of simple permanent tissues.
- 2) Explain different types of complex permanent tissues.
- 3) Describe types of epidermal appendages with examples.
- 4) Describe T.S. of young monocot stem.

Q II Answer the following (Any Two) (20)

- 1) Explain Hill reaction.
- 2) Explain Light reaction.
- 3) Describe the ultrastructure of chloroplast.
- 4) Explain Dark reaction.

Q III Answer the following (Any Two) (20)

- 1) What are Secondary metabolites? Explain their types and functions.
- 2) What Primary metabolites? Explain their types and functions.
- 3) Give botanical name, active constituents and medicinal uses of Tulsi.
- 4) Give botanical name, active constituents and medicinal uses of Turmeric.

Q IV Write short notes on (Any Three) (15)

- 1) Stomata.
- 2) Vascular bundle of dicot stem.
- 3) Differentiate between C3 and C4 plants.
- 4) Differentiate between PSI and PSII.
- 5) Active constituents of Adulsa.
- 6) Medicinal uses of *Aloe vera*.