

- 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) Describe the types of stele.
- 2) Explain in detail the sexual reproduction of *Nephrolepis*.
- 3) Give the general characters of Pteridophyta.
- 4) Explain the alternation of generation of *Nephrolepis*.

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

- 1) Write a brief note on economic importance of Gymnosperms.
- 2) Explain T.S. of young root of *Cycas*.
- 3) Write a note on T.S. of *Cycas* leaf.
- 4) Write a note on external morphology of *Cycas*.

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

- 1) Describe the different types of leaf venation.
- 2) What is inflorescence? Describe different types of inflorescence.
- 3) Give systematic position, distinguishing characters floral formula and two plants of economic importance of family Malvaceae.
- 4) Write a note on different types of leaves.

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

- 1) Hydathode.
- 2) Ramenta.
- 3) Systematic position of *Cycas*.
- 4) Development of male gametophyte of *Cycas*.
- 5) Morphology of leaf.
- 6) Types of stipules.

