

[Time: 2½ Hours]

[ Marks:60]

Please check whether you have got the right question paper.

- N.B:**
1. All questions are **compulsory**.
  2. **Figures** to the **right** indicate **full marks**.
  3. **Draw neat and labelled diagrams wherever necessary**.

- Q.1** Give an outline of classification of Anthocerotae up to orders as proposed by G.M.Smith. **12**
- OR**
- Q.1** Write an account of alternation of generation in Hepaticae.
- Q.2** Explain the structure of sporophyte in Musci add a note on its evolution. **12**
- OR**
- Q.2** Describe the origin and evolution of Bryophytes with reference to form of gametophyte.
- Q.3** Based on G.M. smith's system of classification, classify Lepidophyta up to orders with suitable examples. **12**
- OR**
- Q.3** Classify Calamophyta up to orders as proposed by G.M. Smith.
- Q.4** Describe **any two** of the following fossil Pteridophytes and give their geological time scale. **12**
- a) Rhynia
  - b) Calamites
  - c) Sphenophyllales
  - d) Lepidodendron
- Q.5** Write short notes on **any three** of the following: **12**
- a) Sporophyte of Hepaticae
  - b) Habitat of Anthocerotae.
  - c) Salient features of Musci
  - d) Economic importance of Pteridophytes.
  - e) Cultivation of ornamental ferns.
  - f) Coenopteridales.