

Exam. Code : 103204

Subject Code : 1287

B.A./B.Sc. 4<sup>th</sup> Semester

BOTANY

Paper—IV A

(Diversity of Seed Plants &amp; their Systematics—I)

Time Allowed—Three Hours] [Maximum Marks—35

**Note** :— Attempt *five* questions. Question No. 1 is compulsory. Each question carries 7 marks.

1. Attempt **ALL** parts :
  - (a) What is Evolution ?
  - (b) Basic difference between monocots and dicots.
  - (c) How is cambium formed ?
  - (d) What is secondary growth ?
  - (e) What is the difference between ovule and seed ?
  - (f) Reproduction in *Cycas*.
  - (g) Geological time scale.
2. Give a note on distinguishing features of angiosperms.
3. What do you understand by the term fossilization ? Explain in detail.
4. Draw the neat diagram to explain the life cycle of *Pinus*.
5. Give a detailed note on anatomy of leaves of *Ephedra* and *Ginkgo*.
6. Write a note on evolution and diversity of gymnosperms.
7. Describe in detail the classification of angiosperms.
8. Give the general and identification features of gymnosperms.
9. Write a detailed note on the living fossil.