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Exam. Code : 103203 Subject Code : 9351

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B.A./B.Sc. 3rd Semester (Old Syllabus 2016)

BOTANY

Paper-III (A)

(Diversity of Seed Plants & Their Systematics-I)

Time Allowed—3 Hours]

[Maximum Marks—35

SECTION-I

Note: Attempt all parts of Q. No. 1 of Section-I. Restrict your answer to 3-4 lines only. Each part carries 1 mark.

- 1. (i) Apomixis
 - (ii) Phellogen
 - (iii) Pycnoxylic wood
 - (iv) Diploxylic bundles
 - (v) Haplocheilic stomata
 - (vi) Collar
 - (vii) Petrifactions.

SECTION-II

Note: Answer any **four** questions. Each question carries 7 marks.

2. Name the two main divisions of seed bearing plants and describe the major differences between them.

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(Contd.)

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- 3. Explain the following:
 - (a) Progymnosperms
 - (b) How the fossils are formed?
- Explain the various events in the evolution of seed habit 4. in plants.
- What is sulphur shower? With graphic representation, 5. explain the life cycle of Pinus.
- When did gymnosperms originate? Give an account of 6. fossil gymnosperms.
- 7. Draw well labelled diagrams of the following:
 - (a) T. S. of rachis (petiole) of Cycas.
 - (b) T. S. young stem of Ephedra.
- Write briefly on the following: 8.
 - Xerophytic characters of gymnosperms.
 - (b) Vegetative morphology of Ginkgo biloba.
- Name any two primitive angiosperms. Explain the origin 9. and evolution of angiosperms.

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