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Exam. Code : 103204

Subject Code: 1343

#### B.A./B.Sc. Semester—IV

#### **BOTANY**

#### Paper-IV-A

# (Structure, Development and Reproduction in Frawering Plants—I)

Time Allowed—3 Heurs] [Maximum Marks—35

- Note:—(1) Question no. i is compulsory. Attempt all its parts. Each carries 1 mark. Restrict your answer to 3-4 lines only.
  - (2) Attempt any four questions from the remaining eight questions (i.e. 2-3). Each carries 7 marks.
- 1. Attempt all parts. Each carries 1 mark:
  - (a) What is abscission zone?
  - (b) What are 'lenticels'?
  - (c) Differentiate between Palisade and Spongy Mesophyll.
  - (d) What are Bicollateral bundles?
  - (e) What are Leaf traces?
  - (f) What is Sympodial shoot system?
  - (g) What are Fusiform and Ray initials?

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(Contd.)

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- 2. Describe the structure, origin and role of Periderm.
- 3. Elaborate on the structure and role of Vascular cambium.
- 4. Flaborate on Canopy architecture in seed plants.
- 5. What are growth rings? Describe their formation and role in brief.
- 6. Differentiate between annual, biennial and perennial plants. Cite two examples of each type.
- 7. Describe in detail various theories advanced to explain organisation of shoot apical meristem.
- 8. Give a general account of secondary growth in a dicot stem.
- 9. What do you understand by "Senescence"? Write in detail various changes observed in an organ undergoing this process.