

**(DBOT 21)**

M.Sc. DEGREE EXAMINATION, DECEMBER 2011.

Second Year

Botany

Paper V — DEVELOPMENT BIOLOGY OF  
ANGIOSPERMS AND ELTHANOBOTANY

Time : Three hours

Maximum : 100 marks

SECTION A — (5 × 8 = 40 marks)

Answer any FIVE questions.

1. Incompatibility.
2. Structure of endosperm.
3. Xylem.
4. Anomalous secondary growth in monocots.
5. Siddha.
6. Scope of ethnobotany.
7. Ethnobotanical research in A.P.
8. Protection of tribal rights.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

9. (a) Explain the process of fertilisation.

Or

- (b) Describe apomixis and its role in development of new crop plants.

10. (a) Enumerate the salient features of meristems.

Or

- (b) Describe the anomalous secondary growth in the family Bignoniaceal.

11. (a) What are the strategies for the conservation of sacred groves?

Or

- (b) What is a sacred grove? How they are formed? Name a few of them in A.P. Add a note on their significance.

12. (a) Explain the cultivation practices adopted in the cultivation of any two medicinal plants in A.P.

Or

- (b) Explain the role of phytochemicals in the modern medicine.
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