

(DBOT 21)

M.Sc. (Final). DEGREE EXAMINATION, MAY 2008.

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.

Each question carries 8 marks.

1. Embryo sac.
2. Incompatibility.
3. Lateral meristems.
4. Included phloem.
5. Triple fusion.
6. Tapetum in anther.
7. Biodiversity of sacred groves.
8. Phytomedicines.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

9. (a) Describe the developmental process of male gametophyte in angiosperms.

Or

- (b) Give a detailed account of poly embryony.

10. (a) Describe the anomalous secondary growth using suitable example.

Or

- (b) Write a comparative account on the anatomical features of primary stem and root of dicot plants.

11. (a) What is ethno botany? Write about its scope and importance.

Or

(b) Give an account of sacred groves and the strategies to conserve them.

12. (a) Give a detailed account of major medicinal plants cultivated in Andhra Pradesh.

Or

(b) Discuss the importance phytochemicals in modern medicines.
