(DBOT 21)

M.Sc. Botany (Final) DEGREE EXAMINATION, MAY 2007.
Paper V – DEVELOPMENT BIOLOGY OF ANGIOSPERMS AND ETHANOBOTANY

Time : Three hours **Maximum : 100 marks**

Answer any FIVE questions from Section A.
Each question carries 8 marks.
Also answer ALL questions from Section B.
Each question carries 15 marks.

SECTION A - (5 X 8 = 40 marks)

1. Structure and function of integumentary tapetum.
2. Anther wall development.
3. Histogen theory.
4. Root-stem transition.
5. Threats to sacred graves.
6. Biodiversity in sacred graves.
7. Scope of Ethnobotany.
8. Phytopharmaceuticals.

SECTION B - (4 X 15 = 60 marks)

9. (a) Give an account of the different types of endosperm development and state its functions.

Or

(b) Write an essay on Apomixis its causes and significance.

10. (a) Give an illustrated account of the anamalous secondary growth in monocots.

Or

(b) Describe the structure of a node and its phylogenetic significance in tracheophyta.

11. (a) Give a brief account of the history and development of traditional medicine and explain how it helps in the development of alternative medicine.

Or

(b) Write an account of the sacred graves of Andhra pradesh.

12. (a) Give an account of the three major medicinal plants of Andhra pradesh you have studied.

Or

(b) Phytochemistry is the source of phytomedicine Discuss.