## 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.