

M.Sc. (Final) DEGREE EXAMINATION,  
DECEMBER 2007.

Second Year

Botany

Paper V — DEVELOPMENT BIOLOGY OF ANGIOSPERMS AND ETHANOBOTANY

Time : Three hours  
100 marks

Maximum :

Answer any FIVE questions from Section A.

Each question carries 8 marks.

Also answer ALL the questions from Section B.

Each question carries 15 marks.

SECTION A — (5 × 8 = 40 marks)

1. Structure and function of Obturator.
2. Helobial Endosperm.
3. Anomalous secondary growth in Dracaena.
4. Hydrophytic Roots.
5. Ethnobotanical museums.
6. Biodiversity in sacred groves.
7. Scope of Ethnobotany.
8. Germplasm centres.

SECTION B — (4 × 15 = 60 marks)

9. (a) Give an account of the development of Tetrasporic embryosacs you have studied with suitable diagrams.  
Or  
(b) Write an account of the self Incompatibility and enumerate the measures to overcome it.
10. (a) Define Meristem and classify them. Give in brief about the theories concerned with shoot apical meristem in angiosperms.  
Or  
(b) Write an essay on the structure and functions of Xylem.
11. (a) Write an essay on the scope and history of traditional medicine.  
Or  
(b) What is a sacred grove? Enumerate the various measures for the conservation of the sacred groves.
12. (a) Give a brief account of the secondary metabolites and explain their role in the establishment of alternate medicine.  
Or  
(b) State the objectives of Ethnobotany and explain its significance in strengthening the modern medicine.