

(DBOT 21)

M.Sc. (Final) DEGREE EXAMINATION, MAY 2009.

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 of the following.

Each question carries 8 marks.

1. Self Incompatibility.
2. Apomixis.
3. Telome theory.
4. Anomalous Root growth.
5. Describe one sacred grove of A.P.
6. Ethno medicine.
7. Alkaloids.
8. Tribal Medicinal Formulae.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

9. (a) Write an account on the ultra structure of mature eight nucleate Embryosac in Angiosperms.

Or

(b) Discuss the cytology. Types and development of Endosperm in Angiosperms indicate the role of endosperm hastoria.

10. (a) Give a detail account of Stem Anatomy, in comparison with Dicots and Monocots.

Or

(b) Discuss in detail about the Phloem Components and their role in Secondary growth.

11. (a) What is the significance of Ethnobotany with reference to A.P. Tribal Medicine.

Or

(b) Write about one important sacred grove, its medicinal and traditional values.

12. (a) Write about the IPR and Patent rights in relation to Ethnobotany.

Or

(b) Write in detail about the Cultivation of one important Medicinal Plant of A.P.

(DBOT 22)

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Paper VI — MICROBIOLOGY, MYCOLOGY AND PLANT DISEASES

Time : Three hours

Maximum : 100 marks

SECTION A — (5 × 8 = 40 marks)

Answer any FIVE questions.

Each question carries 8 marks.

13. Thermophilic bacteria.
14. Phosphate solubilizers.
15. Plasmodium.
16. Aflatoxins.
17. Phytoalexins.
18. Latent infections.
19. SAR.
20. Agrocin-84.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.