

2m/BOT-150 (Th) Syllabus-2023

2 0 2 5

(May-June)

FYUP : 2nd Semester Examination

BOTANY

(Minor)

**(Plant Diversity—II, Gymnosperm
and Paleobotany, Angiosperm,
Morphology, Plant Anatomy)**

(BOT-150)

(**Theory**)

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer Question No. **1** which is compulsory and **one**
question from each Section

1. Write short notes on the following : 4×4=16

- (a) Economic importance of gymnosperms
- (b) Geological time scale
- (c) Phyllotaxy
- (d) Tunica-Corpus theory of shoot apex

(2)

SECTION—I

2. With the help of suitable diagrams, describe the development of male and female gametophyte of *Pinus*. 5+5=10
3. What are fossils? Describe the process of fossil formation. 2+8=10

SECTION—II

4. Define inflorescence. Describe the different types of cymose inflorescences. 1+9=10
5. Write notes on the following : 5×2=10
- (a) Aestivation
- (b) Cohesion and adhesion of stamens

SECTION—III

6. Define stomata. Describe different types of stomata with suitable diagrams according to Metcalfe and Chalk. 1+9=10
7. With the help of suitable diagrams, describe root-stem transition in angiosperms. 10

(3)

SECTION—IV

8. Write notes on the following : 5×2=10
- (a) Types of placentation
- (b) Anomalous secondary growth in *Dracaena*
9. Write short notes on the following : 5×2=10
- (a) Types of stamens
- (b) Secondary growth in dicot stems
