

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

2026

(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
any **one** question from each Section

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

(a) Female cone of *Pinus*

(b) Types of seeds

(2)

- (c) Affinities of gymnosperms with pteridophytes
- (d) Structure and functions of phloem parenchyma

SECTION—I

2. With suitable diagrams, describe the male and female gametophyte of *Cycas*. $5+5=10$
3. What are fossils? Describe the different types of plant fossils. $2+8=10$

SECTION—II

4. Write notes on the following : $5 \times 2 = 10$
- (a) Placentation types
- (b) Forms of Corolla
5. Define inflorescence. Describe the different types of racemose inflorescence. $1+9=10$

SECTION—III

6. Write notes on the following : $5 \times 2 = 10$
- (a) Anomalous secondary growth in *Dracaena*
- (b) Any two types of root stem transition in angiosperms

(3)

7. With the help of suitable diagrams, describe the different types of stomata in angiosperms. $4+6=10$

SECTION—IV

8. Describe in detail the secondary growth in dicot stem giving suitable diagrams. $7+3=10$
9. Write short notes on the following : $5 \times 2 = 10$
- (a) Geological Time Scale
- (b) Types of Carpels
