

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

2026

(May-June)

FYUP : 2nd Semester Examination

BOTANY

(Major)

**(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 : $4 \times 4 = 16$

- (a) Megasporophyll of *Cycas*
- (b) Aestivation
- (c) Tunica corpus theory
- (d) Geological timescale

26D/1539

(Turn Over)

SECTION—I

2. Describe the development of male and female gametophytes in *Pinus*. Support your answer with diagrams. $5+5=10$
3. What are fossils? Describe the different types of plant fossils. $2+8=10$

SECTION—II

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

SECTION—III

6. With the help of suitable diagrams, describe the following : $5 \times 2 = 10$
- (a) Anomalous secondary growth in *Bignonia*
 - (b) Anomocytic and anisocytic types of stomata
7. Describe root-stem transition in angiosperms with diagrams. 10

(3)

SECTION—IV

8. Describe the organization of shoot apical meristem in angiosperms. 10
9. Write notes on the following : 5×2=10
- (a) Types of seeds
 - (b) Classification of gymnosperms according to Coulter and Chamberlain

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