

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

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(May-June)

FYUP : 2nd Semester Examination

BOTANY

(Major)

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

(BOT-150)

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) Male cone of *Cycas*

(b) Petrified fossils

(c) Aestivation types

(d) Components of xylem

(2)

SECTION—I

2. "Gnetum is a gymnosperm, but exhibits closeness with angiosperms." Justify the statement. 10
3. Describe in detail the different eras of geological time scale. 10

SECTION—II

4. Write notes on the following : 5×2=10
- (a) Forms of calyx
- (b) Orthotropous and anatropous ovules
5. Define inflorescence. Describe the different types of cymose inflorescence. 1+9=10

SECTION—III

6. With the help of suitable diagrams, describe the following : 5×2=10
- (a) Anomalous secondary growth in *Dracaena*
- (b) Components of phloem and their functions
7. Describe different types of stomata in angiosperms with diagrams. 10

(3)

SECTION—IV

8. Describe in detail the secondary growth in dicot stem giving suitable diagrams. 10
9. Answer the following : 5×2=10
- (a) With the help of suitable diagrams, describe the development of male gametophyte in *Pinus*.
- (b) Describe the economic importance of gymnosperms.

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