

**1M/BOT-100 (Th) Syllabus-2023**

**2 0 2 4**

( April )

**FYUP : 1st Semester Examination**

**MAJOR COURSE**

**BOTANY : BOT-100**

**( Plant Diversity—I, Algae, Bryophyte and  
Pteridophytes )**

**( 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* **four**, selecting **one** from each Section.

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

- (a) Criteria for Fritsch's classification of Algae
- (b) Gametophyte of *Anthoceros*
- (c) Rhizophore of *Selaginella*
- (d) Globule of *Chara*

( 2 )

SECTION—I

2. Write the characteristic features (according to Fritsch's classification) of the following classes :  $2\frac{1}{2} \times 4 = 10$
- (a) Chlorophyceae
  - (b) Bacillariophyceae
  - (c) Phaeophyceae
  - (d) Rhodophyceae
3. With the help of suitable diagrams, describe the range of thallus structures in algae. 10

SECTION—II

4. Give an account of the life cycle of *Funaria* with suitable diagrams. 10
5. Discuss the algal origin of Bryophytes. 10

SECTION—III

6. Describe the different types of stele in Pteridophytes with suitable diagrams.  $6 + 4 = 10$
7. Give an account of the types of gametophytes in *Lycopodium*. 10

( 3 )

SECTION—IV

8. Write notes on the following :  $5 \times 2 = 10$
- (a) Cystocarp of *Polysiphonia*
  - (b) Economic importance of Bryophytes
9. Write notes on the following :  $5 \times 2 = 10$
- (a) Gemma cup of *Marchantia*
  - (b) Anatomical structure of *Selaginella* strobilus

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