

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

**2 0 2 5**

( Nov-Dec )

**FYUP : 1st Semester Examination**

**MAJOR**

**BOTANY**

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

**BOT-100**

*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) Role of algae in eutrophication
  - (b) Cell division in *Oedogonium*
  - (c) Sporophyte of *Anthoceros*
  - (d) Strobilus of *Selaginella*

( 2 )

SECTION—I

2. With the help of suitable diagrams, describe the range of reproductive structures in algae. 8+2=10
3. Describe the post-fertilization changes in *Polysiphonia* with suitable diagrams. 8+2=10

SECTION—II

4. Write explanatory notes on the following : 5×2=10
- (a) Anatomical features of thallus of *Marchantia*
- (b) Sporophyte of *Funaria*
5. Give an illustrated account of the range of gametophytic structures of Bryophytes. 6+4=10

SECTION—III

6. Write notes on the following : 5×2=10
- (a) Strobilus of *Lycopodium*
- (b) Rhizophore of *Selaginella*
7. Discuss the classification of Pteridophytes according to Smith (1955). 10

( 3 )

SECTION—IV

8. Explain the following with proper diagrams : 5×2=10
- (a) Archegoniophore of *Marchantia*
- (b) Types of Siphonostele in Pteridophytes
9. Write notes on the following : 5×2=10
- (a) Sex organs of *Chara*
- (b) Salient features of Pteridophytes

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