

1m/BOT-100 (Th) Syllabus-2023

2 0 2 4

(December)

FYUP : 1st Semester Examination

MINOR

BOTANY

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

(Theory)

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 notes on the following : 4×4=16

- (a) Dwarf male of *Oedogonium*
- (b) Elaters
- (c) Economic importance of pteridophytes
- (d) Tetrasporophyte of *Polysiphonia*

D25/865

(Turn Over)

SECTION—I

2. Give a detailed account on the classification of algae by Fritsch (1935). 10
3. With the help of suitable diagrams, describe the range of reproductive structures in algae. 2+8=10

SECTION—II

4. Describe the range of gametophytic structures in bryophytes. Supplement your answers with suitable diagrams. 8+2=10
5. Write explanatory notes on the following : 5×2=10
 - (a) Sporophyte of *Anthoceros*
 - (b) Archegoniophore of *Marchantia*

SECTION—III

6. What is a stele? Describe the different types of stele with suitable diagrams and examples. 1+6+3=10
7. Compare the structure of strobilus of *Selaginella* with that of *Lycopodium* with labelled diagrams. 7+3=10

SECTION—IV

8. Give an account on the classification of pteridophytes as proposed by Smith (1955). 10
9. Write notes on the following : 5×2=10
- (a) Capsule of *Funaria*
 - (b) Economic importance of algae
