

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

2 0 2 5

(Nov-Dec)

FYUP : 1st Semester Examination

MINOR

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) Characteristic features of
Xanthophyceae

(b) Carpogonium of *Polysiphonia*

(2)

- (c) Structure and function of gemma cup
(d) Economic importance of Pteridophytes

SECTION—I

2. Give a general account on the economic importance of algae. 10
3. Describe the range of vegetative structures in Chlorophyceae. 10

SECTION—II

4. Write explanatory notes on the following : 5+5=10
(a) Sporophyte of *Anthoceros*
(b) Vegetative reproduction in *Funaria*
5. Give an account on the sexual reproduction in *Marchantia*, giving suitable diagrams. 10

SECTION—III

6. What is a stele? Describe the stelar structures in Pteridophytes with diagrams. 2+8=10

(3)

7. Write notes on the following : 5+5=10
(a) Gametophytes of *Lycopodium*
(b) Male gametophyte development in *Selaginella*

SECTION—IV

8. With the help of suitable diagrams, describe the sexual reproduction of *Chara*. 4+6=10
9. Write notes on the following : 5+5=10
(a) L/S of strobilus of *Selaginella*
(b) Economic importance of Bryophytes
