

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

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(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

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