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

2024

(December)

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

- Write short notes on the following . 4×4=16
 - (a) Characteristic features of the class Chlorophyceae
 - (b) Mature sporophyte of Anthoceros
 - (c) Strobilus of Selaginella
 - (d) Cystocarp of Polysiphonia

SECTION-I

- With the help of suitable diagrams, describe the sexual reproduction in macrandrous sp. of Oedogonium.
- With the help of suitable diagrams, describe the range of thallus structures in algae.

SECTION-II

- **4.** With the help of suitable diagrams, describe the structure of antheridiophore and archegoniophore of *Marchantia* 5+5=10
- Give an illustrated account of the range of the gametophytic structures of Bryophytes.

SECTION-III

- 6. Describe the salient features of Pterydophytes and give an outline of the classification of pteridophytes with reference to Smith (1955).
- 7. With the help of suitable diagrams, describe the different types of gametophytes in Lycopodium.

SECTION-IV

- **8.** Write notes on the following: $5 \times 2 = 10$
 - (a) Sex organs of Chara
 - (b) Rhizophore of Selaginella
- **9.** Write notes on the following: $5 \times 2 = 10$
 - (a) Morphology of mature gametophyte of Funaria
 - (b) Protostele

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