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SUBJECT CODE NO: - Y-2052
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y (Sem-II)
Examination March / April - 2023
Botany Paper- IV Diversity of Cryptogams-II

[Time: 1.30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

N. B

- 1) Attempt all questions.
- 2) Draw neat and well-labelled diagram Wherever necessary.

Q1 Describe the structure of Marchantia gametophyte 20

OR

- a) General Characters of Bryophytes 10
- b) structure of Funaria sporophyte 10

Q2 Give an account of external and Internal structure in Marsilea sporophyte 20

OR

write in brief (any Four) 20

1. Apophysis
2. Types of steles in Lycopodium
3. Selaginella strobilus
4. Economic Importance of Bryophytes
5. Prothallus of Equisetum
6. Psilotum sporophyte

Q3 Multiple choice questions 10

- 1) Which of the Following is non vascular embryophyte?
 a) Thallophyta b) Bryophyta c) pteridophyte d) All of the above
- 2) Bryophytes are of _____
 a) Great Economic value
 b) Non value at all
 c) Great ecological Importance
 d) No aesthetic value
- 3) Elaters are present in sporangium of
 a) Marchantia b) Funaria c) Selaginella d) Riccia
- 4) Gemmae are vegetative reproductive structure found in
 a) Angiosperm b) Algae c) Bryophytes d) Pteridophytes
- 5) Function of elaters is
 a) Absorption of food b) Conduction of sap
 c) spore dispersal d) provide support

- 6) Evolutionary Importance characters of Selaginella is
 - a) Heterosporous nature
 - b) Rhizophore
 - c) strobil
 - d) Ligule
- 7) Seed habit originated in
 - a) Bryophytes
 - b) Pteridophytes
 - c) Fungi
 - d) Gymnosperm
- 8) Commonly these pteridophyte plant called as 'ground pines'
 - a) Psilotum
 - b) Marsilea
 - c) Lycopodium
 - d) Selaginella
- 9) If Sori develops in a special nut Like structure, then it is called as sporocarp it occurs in
 - a) Marsilea
 - b) Lycopodium
 - c) Psilotum
 - d) Equisetum
- 10) Psilotum plant is
 - a) Disporous
 - b) Trisporous
 - c) Tetrasporous
 - d) Homosporous