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**SUBJECT CODE NO:- B-2052**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. F. Y. (Sem-II)**  
**Examination November/December- 2022**  
**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                      i) Attempt all Questions.  
                              ii) Draw neat and well-labeled diagram wherever necessary.
- Q.1                      Give an account of vegetative and sexual reproduction in funaria 20
- OR**
- a) Describe external gametophytic structure of marchantia 10  
b) General characters of Bryophytes. 10
- Q.2                      Describe external and internal structure of Equisetum sporophyte 20
- OR**
- Write in brief (any four) 20
- 1) Rhizophore
  - 2) Gemma cup
  - 3) Economic Importance of Bryophytes
  - 4) Sporophyte of Selasinella
  - 5) Sprocarp of marsilea
  - 6) Psilotum sporophyte
- Q.3 Multiple Choice questions. 10
- 1) Heterophytic alternation of generation is commonly found in
 

a) Bryophytes	b) prenidophyte
c) Gymnosperm	d) None of the above

- 2) Last stage of gametophytic generation is
  - a) Spore mother cell
  - b) Spore
  - c) gamets
  - d) zygote
- 3) First land inhabitation plants are
  - a) Pteridophytes
  - b) Bryophytes
  - c) Gymnosperms
  - d) Angiosperms
- 4) The term Bryophyta was given by
  - a) Drawin
  - b) Aristotle
  - c) Galen
  - d) Braun
- 5) In Marchantia vegetative reproduction take place with the help of
  - a) Gemma cup
  - b) Elastar
  - c) Protonema
  - d) sporocarp
- 6) Heterospory is the production of
  - a) Dipliod and tetraploid spore
  - b) Sexual and Asexual spore
  - c) large and small spore
  - d) Haplod and diploid spore
- 7) Pteridophytes also known as
  - a) Phenerogams
  - b) Spermatophyte
  - c) Amphibian
  - d) Vascular cryptogams
- 8) Fertile and sterile two types of branches occurs in these plant
  - a) Marsilea
  - b) Cycopodiun
  - c) Equisetum
  - d) Psilotum
- 9) Each sorous in marsilea is covered by
  - a) In dusium
  - b) Integuments
  - c) elestar
  - d) capsule
- 10) In Selaginella trabeculae are modification of
  - a) Epidermal Cell
  - b) Cortical Cell
  - c) Endodermal Cell
  - d) Peridermal Cell