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**NEPWT—116—2024**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**M.Sc. (First Year) (First Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2024**

**(NEP Pattern)**

**BOTANY**

**Paper SBOTC-402**

**(Diversity of Cryptogams)**

**(Saturday, 14-12-2024)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—Three Hours*

*Maximum Marks—80*

- Note* :— (i) Question No. 1 is compulsory.  
(ii) Of the remaining, attempt any *three* questions.  
(iii) Draw neat and labelled diagram wherever required.

1. Write brief notes on the following : 20
- (a) Reserve food in algae  
(b) Nucule and Globule in chara.  
(c) Funaria Gametophyte  
(d) Economic importance of pteridophytes.

P.T.O.

2. Describe in brief :

- (a) Asexual reproduction in algae. 10
- (b) Ultrastructure of algal cell. 10

3. Write in brief :

- (a) General morphology and asexual reproduction in Phaeophyta. 10
- (b) Economic importance of algae. 10

4. Describe in brief :

- (a) Structure of Anthoceros sporophyte. 10
- (b) Morphological and anatomical characters of Riccia gametophyte. 10

5. Describe in brief :

- (a) Morphological and anatomical characters of equisetum. 10
- (b) Morphological and anatomical characters of Lycopodium sporophyte. 10

6. Write brief notes on the following : 20

- (a) Algal blooms
- (b) Botrydium
- (c) Antheridiophore in marchantia
- (d) Heterospory.