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**SB—50—2022**

**FACULTY OF SCIENCE**

**B.Sc. (First Year) (Second Semester) EXAMINATION**

**MAY/JUNE, 2022**

**(New Pattern)**

**BOTANY**

**Paper-III**

**(Bryophytes, Pteridophytes, Gymnosperms and Paleobotany)**

**(Monday, 13-06-2022)**

**Time : 10.00 a.m. to 12.30 p.m.**

*Time— 2.30 Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt all questions.*

*(ii) Draw well labelled diagrams wherever necessary.*

1. Describe in detail external morphology and anatomy of Marchantia. 15

*Or*

*Write in brief :*

(a) Phenomenon of heterospory and seed habit in pteridophyte. 8

(b) Structure of Marsilea Sporocarp. 7

2. Describe in detail external features of Cycas sporophyte and add a note on structure of Pinna. 15

*Or*

*Write in brief :*

(a) Process of plant fossilization. 8

(b) Geological time scale. 7

**P.T.O.**

3. Write short notes on any *two* of the following : 10

- (a) Funaria Sporophyte
- (b) Economic importance of Pteridophytes
- (c) Female cone of Pinus
- (d) Ginkgo.