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**PA—30—2024**

**FACULTY OF SCIENCE AND TECHNOLOGY**

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

**MARCH/APRIL, 2024**

**(New Pattern)**

**BOTANY**

**Paper III**

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

**(Monday, 15-04-2024)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—2 Hours*

*Maximum Marks—40*

*Note :— (i) Attempt all questions.*

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

1. Describe external morphology of Funaria. Add a note on sex organs in Funaria. 15

*Or*

*Write in brief :*

- (a) External and internal structure of lycopodium strobilus. 8
- (b) External morphology of Marsilea. 7

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2 Describe external morphology of *Pinus*. Add a note on T.S. of *pinus* needle. 15

*Or*

Write in brief :

(a) L.S. of *cycas* ovule. 8

(b) Types of fossils. 7

3. Write short notes on any *two* of the following (each of 5 marks) : 10

(a) Classification of bryophytes as per N.S. Parihar

(b) Sporocarp of *Marsilea*

(c) General characters of Gymnosperms

(d) *Lyginopteris oldhamia* stem.

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