

This question paper contains 2 printed pages]

**VA—46—2024**

**FACULTY OF SCIENCE AND TECHNOLOGY**

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

**NOVEMBER/DECEMBER, 2024**

**(New Pattern)**

**BOTANY**

**Paper—VII**

**(Plant Physiology and Biochemistry)**

**(Saturday, 7-12-2024)**

**Time : 2.00 p.m. to 4.00 p.m.**

*Time—2 Hours*

*Maximum Marks—40*

**N.B. :-** (i) Attempts *all* questions.

(ii) Illustrate your answer with suitable labelled diagrams, wherever necessary.

1. What is transpiration ? Give the types and describe in detail K<sup>+</sup> pump theory.

15

*Or*

Describe in brief :

(a) Munch-Mass flow hypothesis. 8

(b) Physiological roles and deficiency symptoms of Ca and Mg. 7

P.T.O.

2. What is seed germination ? Write a note on types of seed germination.15

*Or*

Describe in brief :

(a) Biological functions of carbohydrates. 8

(b) Biological functions of flavonoids. 7

3. Write short notes on (any two) : 10

(a) Plasmolysis

(b) Hydroponic technique

(c) Practical applications of Auxins.

(d) Primary structure of proteins.