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SA—46—2025

FACULTY OF SCIENCE AND TECHNOLOGY

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

MARCH/APRIL, 2025

(New/CBCS Pattern)

BOTANY

Paper—VII

(Plant Physiology and Biochemistry)

(Thursday, 17-4-2025)

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

Time—2 Hours

Maximum Marks—40

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

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

1. What is ascent of sap ? Write a note on transpiration pull theory. 15

Or

Describe in brief :

(a) Munch-Mass flow hypothesis 8

(b) Ion Exchange Theory. 7

P.T.O.

WT

(2)

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2. Define seed dormancy. Explain in detail different methods of breaking seed dormancy. 15

Or

Describe in brief :

- (a) Biological functions of terpenoids 8
- (b) Biological functions of proteins 7
3. Write short notes on (any *two*) : 10
- (a) Diffusion
- (b) Foliar nutrition
- (c) Long day plants
- (d) Secondary structure of proteins.

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