

This question paper contains 2 printed pages]

**NA—46—2023**

**FACULTY OF SCIENCE**

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

**NOVEMBER/DECEMBER, 2023**

**(New Pattern)**

**BOTANY**

**Paper—VII**

**(Plant Physiology and Biochemistry)**

**(Monday, 11-12-2023)**

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

*Time—2 Hours*

*Maximum Marks—40*

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

(ii) Draw well labelled diagrams wherever necessary.

1. What is translocation of organic solutes ? Describe in detail munch-mass flow hypothesis. 15

*Or*

Write in brief :

(a) Starch-sugar theory 8

(b) Osmosis and plasmolysis. 7

2. Define plant growth hormones. Describe practical applications of Cytokinins and Gibberellins. 15

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( 2 )

NA—46—2023

Or

- (a) Biological functions of Flavonoids. 8
- (b) Types and mechanism of seed germination. 7
3. Write short notes on any *two* of the following : 10
- (a) Plasmolysis
- (b) Deficiency symptoms of Cu and Zn
- (c) Phases of Growth
- (d) Biological functions of essential oils.

NA—46—2023

2