

This question paper contains 2 printed pages]

**ST—31—2022**

**FACULTY OF SCIENCE**

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

**MAY/JUNE, 2022**

**(CBCS/New Pattern)**

**BOTANY**

**Paper-XI**

**(Plant Physiology)**

**(Tuesday, 28-6-2022)**

**Time : 2.00 p.m. to 5.45 p.m.**

*Time— 3.45 Hours*

*Maximum Marks—75*

*N.B. :— (i) Attempt all questions.*

*(ii) All questions carry equal marks.*

*(iii) Draw neat and labelled diagrams wherever necessary.*

1. Describe in detail mechanism of phloem transport in plant and add a note on phloem loading and unloading. 15

*Or*

Give a detailed account of molecular structure of water. Describe in detail its physicochemical properties.

2. Give an account on biochemistry, mechanism of biosynthesis and practical application of Gibberellins. 15

*Or*

Describe biochemistry, mechanism of biosynthesis and practical applications of Ethylene.

3. Describe in detail mechanism of carbon-reduction pathway with reference to Calvin cycle. 15

*Or*

Describe in brief chemistry property and mechanism of biosynthesis of photosynthetic pigment.

**P.T.O.**

