# FACULTY OF SCIENCE BSc. CBCS III-Year (V-Semester) Regular Examinations, Dec-2022/Jan-2023 Biotechnology-V/A (Plant Biotechnology)

Time: 3 Hours

SECTION-A

(4x5=20 Marks)

Max Marks: 80

## Answer any Four questions from the following

- 1. Cell suspension cultures.
- 2. Conservation of plant germplasm.
- 3. Viral vectors.
- 4. Salinity stress tolerant plants.
- 5. Totipotency.
- 6. Micropropagation.

### SECTION-B

(4x15=60 Marks)

Answer all the following questions

7. (a) Explain in detail about plant growth regulators.

(OR)

- (b) What is sterilization what are different types of sterilization.
- 8. (a) Explain in detail about development of somatic hybrids and cybrids.

## (OR)

- (b) Explain in detail about cell suspension cultures and write its applications.
- 9. (a) Explain in detail about Genome editing.

## (OR)

- (b) Explain in detail about gene transfer techniques.
- 10. (a) What are transgenic plants explain briefly with examples.

## (OR).

(b) Explain in detail about insect resistant transgenic plants.