

**M.Sc. DEGREE EXAMINATION, ODD SEMESTER 2020**  
**II Year and III Semester**  
**Plant Tissue Culture**

**Max.marks :25**

Answer any **FIVE** questions ( $5 \times 5 = 25$ ) Marks

1. Write notes on the sterilization in plant tissue culture.
2. Define: Culture medium? Write the composition of media for in-vitro culture.
3. Write notes on (a) Totipotency (b) Micropropagation.
4. How are synthetic seeds produced? Add a note on its applications.
5. What is Immobilization? Explain the Immobilization techniques and its uses.
6. Explain the protoplast culture, isolation, purification and regeneration.
7. Describe the crop improvement in tissue culture for production of virus free plants.