

FINAL EXAMINATION
ATTEMPT ALL THE QUESTIONS
OUT OF 100%

1. Define the following terms. (20 Marks)

- i. Plant tissue culture –**
- ii. Totipotency –**
- iii. Organogenesis –**
- iv. Embryogenesis –**
- v. Invitro Micrografting**
- vi. Callus –**
- vii. Protoplasts –**
- viii. Cybrids –**
- ix. Endomitosis –**
- x. Soma clonal variation –**

2. Micro-propagation has become a suitable alternative to conventional methods of vegetative propagation of plants. Define the term micro-propagation and List and explain FIVE methods of Micro-propagation. (20 Marks)

3. List FIVE some of the advantages and disadvantages of micropropagation?

Advantages (10 Marks)

Disadvantages (10 Marks)

- 4. State and explain FOUR factors affecting vitro clonal propagation also known as micropropagation. (10 Marks)**
- 5. State FIVE applications of micro-grafting. (10 Marks)**
- 6. Protoplasts have a wide range of applications. State FIVE of them. (10 Marks)**
- 7. State and explain FIVE applications of Haploid plants (10 Marks)**