

T.E-VI Sem - Biotech

Cell & Tissue Culture.

(15)

TE/VI/~~CBT~~^{LBT}/BT/UC

QP Code : 6329

(3 Hours)

Max.Marks: 80

Note: 1. Question no. 01 is compulsory.

2. Attempt any 03 questions out of remaining 05 questions.

1. (A) What is a plant tissue culture media? Explain the components of Plant tissue culture media. (10M)

(B) What is animal cell culture? Explain the advantages & limitations of animal cell culture. (10M)

2. (A) Describe Agro bacterium mediated gene transfer with proper diagram. (10M)

(B) Explain the Direct methods of gene transfer. (10M)

3. (A) Explain the primary culture in detail. (10M)

(B) Explain the different methods of cell separation. (10M)

4. (A) Define somatic embryogenesis. Explain the process of somatic embryogenesis. (10M)

(B) Explain the scale-up of plant tissue culture. (10M)

5. (A) Explain the stages of micropropagation. (10M)

(B) Explain in brief about serum free media. (10M)

6. Write short notes on: (20M)

(a) Cryopreservation

(b) Organ culture

(c) Electroporation

(d) Embryonic stem cell