

BOT-16.1-PAPER-XVI - Molecular Biology & Plant Biotechnology (Special)-II

P. Pages : 1

Time : Three Hours



GUG/W/18/2367

Max. Marks : 80

- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well-labelled diagrams wherever necessary.

1. What are cloning vectors? Describe cloning vectors for higher plants. 16

OR

Write on:-

a) Features of Ti and Ri plasmids. 8

b) Particle bombardment method. 8

2. What are biofertilizers? Write in detail about biofertilizers. 16

OR

Write on:-

a) Bt genes. 8

b) Edible vaccines. 8

3. What is organogenesis? Write about direct and indirect organogenesis. 16

OR

Write on:-

a) Callus culture. 8

b) Organ culture. 8

4. What is pollution? Write about pollution control through GMO. 16

OR

Write on:-

a) Nitrogen fixing genes. 8

b) Sequence Characterized Amplified Regions (SCAR) 8

5. Write short notes on:-

a) Agrobacterium. 4

b) Insect resistance. 4

c) Somatic hybrids. 4

d) RAPD markers. 4
