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M. TECH. (BIOTECHNOLOGY)
THIRD SEMESTER EXAMINATION, 2009-10
PLANT CELL TECHNOLOGY

Time : 3 Hours

Total M

Note : (i) Attempt any FIVE questions.
(ii) Marks are indicated against each question.

1. What is haploid culture and explain the production of haploid the help of suitable diagram?
2. Write the name of different transformation methods and give mechanism of *Agrobacterium* mediated genetic transformation.
3. Give a brief note on:
 - (a) RAPD
 - (b) QTL
 - (c) Secondary metabolites
 - (d) SSCP
4. (a) Discuss the importance of reporter genes and selectable markers in plant transgenics, also write the names of reporter and selectable markers.
(b) Describe transgenic plants by giving examples of two

Give an elaborative account of micropropagation? Give the utility of micropropagation.

20

Write short note on:

4 x 5 = 20

- a) Cybrid
- b) Somatic embryogenesis
- c) Cryopreservation
- d) Artificial seed
- e) Totipotency



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