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B.Tech
PBT51102

5th Semester Regular / Back Examination 2018-19
PLANT & ANIMAL BIOTECHNOLOGY

BRANCH : BIOTECH

Time : 3 Hours

Max Marks : 100

Q.CODE : E373

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

- Part - I
- Q1 Short Answer Type Questions (Answer All-10) (2 x 10)**
- Define primary cultures and cell lines.
 - What is the role of HAT medium in the selection of hybrid cells?
 - What do you mean by molecular farming?
 - What is cybrids?
 - Define callus and suspension cultures.
 - What do you mean by artificial seeds? How it can be produced?
 - What is disarmed TI plasmid?
 - What do you mean by criss-cross inheritance?
 - How protoplast fusion technology operate?
 - What does GMO stands for and write its importance?
- Part - II
- Q2 Focused-Short Answer Type Questions - (Answer Any EIGHT out of TWELVE) (6 x 8)**
- What are serum-free media? Discuss the advantages and disadvantages of such media.
 - Describe the technique of somatic cell fusion and the development of hybridoma clones.
 - Write the process and advantages of microinjection technology in tissue culture.
 - What is somatic embryogenesis? Write its advantages.
 - What is cryopreservation and how it is beneficial?
 - What is micropropagation? Write its advantages and limitations.
 - How TI plasmid is organized in relation to T-DNA and vir regulon?
 - Describe the production of insect resistant transgenic plants in relation to cry proteins of *B. thuringiensis*.
 - Write the mechanism and applications of electroporation.
 - Explain the mechanism of T-DNA transfer into plant genome.
 - How secondary metabolites is produced through plant tissue culture and purified. Discuss with example.
 - What do you mean by terminator seed technology? Write its applications.

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