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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

B.Tech-IV Semester (BT)

COURSE CODE: Cell Culture Technology

MAX. MARKS: 15

COURSE NAME: 10B11BT412

COURSE CREDITS: 04

MAX. TIME: 1 Hour

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

- Q1. What do you understand by Plant Tissue Culture? How it is applicable in crop improvement programmes? [2.5 Marks] (CO1)
- Q2. Plant tissue culture media is required for in vitro organogenesis via axillary budding for micropropagation of Orchid plants. What could be the desired components of the media? Explain with justification. [2.5 Marks] (CO2)
- Q3. Explain the steps for carrying out micropropagation of Apple root stock M9. How you can develop clones for the same? [2.5 Marks] (CO1 & 2)
- Q4. Experimental organisms are valuable for the study of cell and developmental biology. Justify [2 Marks] (CO1)
- Q5. What is the theory proposed by Theodor Schwann with regard to cell? [1 Mark] (CO1)
- Q6. Briefly discuss the function of endoplasmic reticulum and golgi apparatus? [2 Marks] (CO1)
- Q7. Animals exploit the phospholipid asymmetry of their plasma membranes to distinguish between live and dead cells. Explain with an example. [2.5 Marks] (CO1 & 2)