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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

M.Tech

FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)

(Subjective Type)

Subject Code: AMTBT0217

Subject: Cell & Tissue Culture Techniques

Max. Mks. : 30

Time : 50 Minutes

General Instructions:

All questions are compulsory.

Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.

| Q.No | Question Content | Question Image | Category | Sub Category | Marks | Options Randomization | Type | Difficulty |
|------|--|----------------|--------------------------|--------------|-------|-----------------------|------------|------------|
| 1 | What is culture media? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Brilliant |
| 2 | What is natural culture media and its example? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Brilliant |
| 3 | What is chemically defined media and one example for it? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Smart |
| 4 | What is the significance of hemocytometer? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Brilliant |
| 5 | What do you understand by organ culture? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Smart |
| 6 | Define suspension cell culture with examples. | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Brilliant |
| 7 | What do you understand by biolistic approach? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Brilliant |
| 8 | What are bioreactors? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Smart |
| 9 | Define stem cells. | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Smart |

| Q.No | Question Content | Question Image | Category | Sub Category | Marks | Options Randomization | Type | Difficulty |
|------|--|----------------|--------------------------|--------------|-------|-----------------------|------------|------------|
| 10 | Define the term: organogenesis | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Smart |
| 11 | Define the term: Morphogenesis | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Brilliant |
| 12 | What is somatic embryogenesis? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Smart |
| 13 | What is synthetic seed? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Smart |
| 14 | What is meristem? | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Brilliant |
| 15 | Name the methods of virus free plant production. | | Attempt any 10 questions | 10 x 3=30 | 3 | | Subjective | Brilliant |