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Total No. of Questions: 18

B.Tech. (BT) (Sem.-5)

ANIMAL CELL CULTURE & BIOTECHNOLOGY

Subject Code: BTBT-502-18 M.Code: 78236

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly:

- What is cell differentiation?
- 2) What do you understand by a complete media?
- 3) What is subculturing?
- Define labeling index.
- 5) What do you understand by generation time?
- 6) What are cell banks?
- 7) What is molecular pharming?
- 8) What are transgenic animals?
- Give three applications of animal tissue culture.
- Define cell lines.

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SECTION-B

- Explain the process of cell adhesion and proliferation.
- Discuss the layout of an animal tissue culture laboratory.
- Discuss various steps involved in preparation of primary culture.
- Write a note on cell cloning and cell separation.
- Explain various gene transfer technologies in mammalian cells.

SECTION-C

- Give a detailed account of various culture media used in animal tissue culture.
- www.FirstRanker.com 17) What are the various techniques for measurement of viability and cytotoxicity?
- 18) Write short notes on :
 - a) Cryopreservation of cell lines
 - b) ES and microinjection.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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