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24-BT-42

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

BIOTECHNOLOGY

Paper - II

[Animal Biotechnology]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Give an account of equipment and related accessories for animal cell culture ?

OR

Attempt following short notes on -

- i) Role of Serum.
- ii) Serum free media.
- iii) Balanced salt solution.

Q. 2 Describe disaggregation of tissue and primary culture ?

OR

What is Cell line ? Explain primary and established all line cultures ?

Q. 3 Write an essay on Bioreactors.

OR

Write short notes on **any two** -

- i) Synchronization.
- ii) Fusion.
- iii) Transformation.

Q. 4 What do you understand by Apoptosis. Explain different methods of measurement of cell death ?

OR

P.T.O.

Write an essay on Tissue Engineering ?

Q. 5 Write an essay on transgenic animals ?

OR

Describe stem cell culture alongwith its types and applications ?

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