

Reg. No. :

Name :

Third Semester M.Sc. Degree Examination, February 2024

Biotechnology

BT 302 : ANIMAL BIOTECHNOLOGY

(2020 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

I. Answer any **two** questions :

1. Discuss the basic equipment and facilities required for animal cell culture.
2. What are stem cells? Explain the types of stem cells and its applications.
3. Describe the different methods of gene therapy. Write down its applications.

(2 × 15 = 30 Marks)

II. Answer any **nine** of the following.

4. Discuss the role of carbon dioxide in cell culture media.
5. Write note on cell transformation.
6. Describe the methods of cell subculturing.
7. Write notes on artificial media.
8. How the scale up of a cell culture is done?
9. Write note on established cultures.

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10. Explain the industrial applications of animal cell culture?
11. What is apoptosis? Describe the molecular mechanism behind it.
12. Write note on cloning vectors.
13. Write note on the ethical issues associated with animal cloning.
14. What is transgenesis? Write down the methodology used for transgenesis.
15. What are the advantages and disadvantages of using primary cells in cell culture?

(9 × 5 = 45 Marks)

