



23129051

QP CODE: 23129051

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,
OCTOBER 2023**

Fifth Semester

B.Sc Biotechnology Model III

CORE COURSE - BT5CRT14 - ANIMAL BIOTECHNOLOGY

2017 Admission Onwards

B1C775B5

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is feeder layer?
2. What is containment room?
3. How can we test the quality of serum?
4. What is EGF?
5. Mention the use of trypsin in cell culture.
6. Cell synchronisation.
7. What is split ratio?
8. Epithelial cells.
9. What is 3D culture?
10. What is monoclonal antibody?
11. Insulin.
12. Mention the role of animal cell culture in medical and cancer research.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Write the role of tissue culture in medical research.
14. Write a note on sterilization techniques.
15. What are the different hormones in media?
16. Explain the different sterilization techniques in media preparation.
17. Write a note on monolayer culture.
18. Write a note on bioreactor for suspension culture.
19. Write a short note on insect and virus culture.
20. Write about production of vaccines through cell culture.
21. Explain how a transgenic cow can be produced?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Illustrate the importance of different constituents of culture media.
23. Write an essay on the maintenance of cell lines.
24. Write an essay on suspension cultures and immobilized cultures.
25. Explain knock-in technology and describe the production and application of knock-in mouse.

(2×10=20)

