



QP CODE: 22100035



22100035

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,
JANUARY 2022**

Fifth Semester

B.Sc Biotechnology Model III

CORE COURSE - BT5CRT14 - ANIMAL BIOTECHNOLOGY

2017 Admission Onwards

5783F02B

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Name the first human cell line established.
2. What are the advantages of plastic over glass as a substrate?
3. Define culture media.
4. Differentiate EGF and FGF.
5. What is established cell line?
6. Continuous cell line.
7. What is split ratio?
8. Stirrer culture.
9. Insect and virus culture.
10. What is hybridoma?
11. Tissue plasminogen activator.
12. Dolly.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Give a note on sterile handling area.





14. Give the importance of microscope in tissue culture works.
15. Give an account on the importance of serum in culture medium.
16. What are the different hormones in media?
17. How animal cell lines are characterised? Explain.
18. Write a note on plasma clot.
19. Explain how cells can be immobilized?
20. Describe the knock-in mouse.
21. Write an essay on the applications of animal cell culture in medical and cancer research.
(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the importance of physico-chemical factors affecting cell culture medium.
23. Explain primary cell culture and describe mechanical and enzymatic disaggregation of tissue.
24. Write an essay on stem cells and cell differentiation.
25. Write an essay on the types, properties and applications of vaccines.
(2×10=20)

