

QP CODE: 19102434



Reg No : _____
Name : _____

BSc DEGREE (CBCS) EXAMINATION, OCTOBER 2019

Fifth Semester

B.Sc Biotechnology Model III

Core Course - BT5CRT14 - ANIMAL BIOTECHNOLOGY

2017 Admission Onwards

79B3F3A0

Maximum Marks: 60

Time: 3 Hours

Part A

Answer any ten questions

Each question carries 1 mark

1. What are histotypic cultures?
2. Write down the measures used to maintain aseptic condition.
3. Which growth factor stimulate growth in fibroblast and glia?
4. What is PGDF?
5. What is continous cell line?
6. Transformed cell.
7. Generation number.
8. Fixed bed culture.
9. Insect and virus culture.
10. What is monoclonal antibody?
11. What is cell cultured based vaccine?
12. Interferons.

(10×1=10)

Part B

Answer any six questions.

Each question carries 5 marks.

13. Write a note on culture vessels and the factors affecting the choice of selecting a vessel.

14. Write a note on sterilization techniques.
15. Explain chemically defined media?
16. Explain the different sterilization techniques in media preparation.
17. Give an account of primary cell culture.
18. What are stem cells? Describe the applications of stem cell culture.
19. Explain 3D culture and its applications.
20. Explain knock-out and knock-in technology.
21. Write in detail on the significance of animal cell culture in medical and cancer research.

(6×5=30)

Part C

Answer any two questions

Each question carries 10 marks.

22. Describe the hormones that are beneficial for the cell adherence and cell proliferation.
23. Write an essay on the maintenance of cell lines.
24. Write an essay on the large scale culture of cell lines.
25. Explain how transgenic animals can be produced. Point out the importance of transgenic mice and cow.

(2×10=20)