

C 40504

(Pages : 2)

Name.....

Reg. No.....

SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2023

(CBCSS—UG)

Biotechnology

BTY 6B 14—ANIMAL BIOTECHNOLOGY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)*Answer any ten questions.**Each question carries 2 marks.*

1. Animal cloning.
2. Immortal cell lines.
3. Natural media.
4. Cross contamination.
5. Microcarrier culture.
6. Retroviral infection.
7. MTT assay.
8. Established cell line.
9. Cold trypsinization.
10. Types of cells based on morphology.
11. Dye exclusion.
12. Cell synchronization.

(10 × 2 = 20 marks)

Section B (Paragraph Type Questions)*Answer any six out of seven.**Each question carries 5 marks.*

13. Explain the protocol for Isolation of mouse embryo.
14. What is balanced salt solution ? Explain its role in animal cell culture media.

Turn over

15. Discuss the features of SV-40, Papillomavirus and Epstein-Bar virus.
16. Explain the steps involved in cryo-preservation of animal cells.
17. Describe cell line designations and maintenance of cell lines.
18. Describe various application of animal cell culture.
19. Describe the methods for quantification of cells in cell culture.

(6 x 1)

Section C (Essay Type Questions)

*Answer any **one**, which carries 10 marks.*

20. Describe different methods to measure cytotoxicity of a drug.
21. What is Immortalization ? Explain different methods for immortalization of cell line

(1 x 10)