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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. MTTassay.
- Established cell line.
- Cold trypsinization.
- Types of cells based on morphology.
- Dye exclusion.
- 12. Cell synchronization.

 $(10 \times 2 = 20 \text{ marks})$

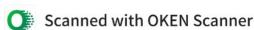
Section B (Paragraph Type Questions)

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.

(6x)

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

 (1×1)