

2316

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Class – B.Sc. (BT) Sem. VI

Subject – Animal Biotech

Paper – BT-3

Time Allowed : 3 Hours

Maximum Marks : 40

SECTION-A

Attempt all Questions.

1. Explain

- (a) Cell lines
- (b) Organ culture
- (c) Differentiation
- (d) DEAE-Dextran Mediated transfection
- (e) Lipofection
- (f) Bioreactors in ATC
- (g) Stem cells

1 × 8 = 8

SECTION-B

Attempt any five questions.

- 1. Explain commonly used cell lines, their origin & characteristics.
- 2. Explain organ culture.
- 3. Explain Differentiation of cells.
- 4. What are Expression Vectors and their use in ATC?
- 5. What is the need to express proteins in animal cells?
- 6. Explain the use and production of monoclonal antibodies.

7. What are the scale up methods for propagation of anchorage dependent and suspension cell cultures?
8. Explain the use of Bioreactors for cell culturing.

5 × 4 = 20

SECTION-C

Attempt any two.

1. Give the various methods of Transfection in ATC.
2. What are stem cells, characterization of stem cells and their applications.
3. Explain in details Differentiation of cells & organ culture.

6 × 2 = 12
