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Roll No.8008.....

B.Sc.(Bio-Tech.)-III Year

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B.Sc. (Bio-technology)

Examination, April-2025

Animal Biotechnology

(B-302)

(B.Sc. Biotech.)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt any **five** questions. All questions carry equal marks.

1. Explain different vectors used in rDNA technology.
2. Explain the embryo transfer technique and mentioning its advantages.
3. Explain different steps involved in Sanger's method of DNA sequencing.

P.T.O.

4. Describe working mechanism of stirred tank fermenter.

5. Write short notes on any **three** of the following. $5 \times 3 = 15$

- (a) Application of genomic DNA libraries
- (b) Oocyte recovery
- (c) Recombinant vaccine
- (d) Vector used in gene therapy

6. Define animal cell technology and describe various cell culture techniques.

7. Write short notes on any **three** of the following. $5 \times 3 = 15$

- (a) Serum containing media, discuss its advantage and disadvantage
- (b) Platelets derived growth factor
- (c) Retroviruses
- (d) Marker assisted selections

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8. What is tissue engineering? Mention the basic clinical goals and fundamental challenges of tissue engineering.

9. Describe the production of Mab's using hybridoma technology.

10. Describe the methods of transgenesis with precautions at each step.

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