

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(SP/22)**

CLASS: M Sc
BRANCH : Biotechnology SUBJECT: BT423 Animal Biotechnology

SEMESTE :II
SESSION :SP- 22

TIME: 2.00 hrs

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Candidates may attempt all 5 questions of 50 marks.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall
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- Q 1a. Explain any two methods of disaggregation of tissue. (5)
- Q 1b. What are the advantages and disadvantages of primary culture? (5)
- Q.2a. What problems does IVF solve? How is infertility treated with IVF & ET (5)
- Q 2b. Discuss the importance of cell synchronization and the factors to be considered for it. (5)
- Q 3a. What are expression vectors? Which promoter sequences are most commonly used for constructing expression vectors? (5)
- Q 3b. What are the advantages and disadvantages of Genetic engineering? (5)
- Q 4a. What is Gene therapy? How would you explain its types? (5)
- Q 4b. Explain different types of xenotransplantation. (5)
- Q 5a. What is gene therapy in animals describe as transfection and not transfection? (5)
- Q b5. Write a brief note on transgenic animal. (5)

09/05/2022 E