

No. of Printed Pages : 03

Roll No.

F62

B. Tech. EXAMINATION, May 2019

(Sixth Semester)

(B. Scheme) (Main & Re-appear)

(BT)

BT304B

ANIMAL BIOTECHNOLOGY

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

(2-08/18) M-F62

P.T.O.

Unit I

1. Give a brief account on the following :
 - (a) Applications of animal biotechnology
 - (b) Animal cell lines. **7.5×2=15**
2. Discuss the organ cell culture and its applications. **15**

Unit II

3. (a) Discuss the methods of cryopreservation of animal germplasm.
 - (b) Describe DNA microinjection method for development of transgenic. **7.5×2=15**
4. (a) Describe the techniques of in vitro fertilization.
 - (b) Comment on yeast artificial chromosome transgenesis. **7.5×2=15**

Unit III

5. Discuss the types and role of gene therapy in genetic disease treatment. **15**

6. Write notes on the following :

- (a) Chemical carcinogenesis
- (b) Oncogenesis. **7.5×2=15**

Unit IV

7. Discuss the gene cloning techniques for mammalian cells. **15**
8. Describe the expression for mammalian genes in prokaryotic system. **15**