

No. of Printed Pages : 03

Roll No.

DD-332

M. Sc. EXAMINATION, Dec. 2018

(Fourth Semester)

(Re-appear Only)

BIOTECHNOLOGY

BT604MS

Animal Biotechnology-I

Time : 3 Hours]

[Maximum Marks : 100

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.

(2-26/20) M-DD-332

P.T.O.

Unit I

1. What is cyclic exposure to medium and gas phase ? Describe the risks involved in animal cell culture laboratory. **20**
2. What do you understand by animal tissue culture ? Give a brief account of Plasma clot method, Raft method, Agar Agar method and Grid method. **20**

Unit II

3. Give a detailed account of different constituents of culture media and their metabolic functions in animal cell culture. **20**
4. Describe different animal cell culture infrastructure facilities including various equipments, culture vessels and other conditions. **20**

Unit III

5. How separation of viable and non-viable cells through mechanical, enzymatic degradations takes place ? **20**

6. What do you understand by Biotransformation ? Give an account of synchronization cell culture and cell division. **20**

Unit IV

7. What is gene cloning ? Describe different techniques of developing transgenic. **20**
8. How gene expression in prokaryotic and eukaryotic organism takes place ? Give an account of antisense RNA and DNA mechanism. **20**