

Roll No.

DD-803

M. Sc. (Fourth Semester) EXAMINATION, 2020

BIOTECHNOLOGY

Paper Third

(Animal Biotechnology)

Time : Three Hours

Maximum Marks : 80

Note : Attempt all questions. All questions carry equal marks.

1. Write short notes on the following :
 - (a) Composition of any *one* serum free media
 - (b) Method of cell separation
 - (c) Problems for development of vaccine against AIDS
 - (d) Transgenic fish

Unit—I

2. Describe about equipments required for animal cell culture with specification.

Or

Describe in detail about application of cell culture.

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Unit—II

3. What are the methods for scaling-up of animal cell culture ?

Or

Describe in detail about mammalian nerve cell culture process.

Unit—III

4. Describe process of vaccine development by using cell culture method.

Or

Explain about genetics of somatic cells.

Unit—IV

5. Explain the process of development of artificial skin and artificial cartilage by using tissue engineering process.

Or

Describe process of development of transgenic mice and sheep in detail.