AAN-478 Seat No. _____

B. Sc. (Sem. V) Examination

October / November - 2016

CC-10 - Biotechnology : Paper - 504

(Applied Animal Tissue Culture)

Time : 3 Hours] [Total Marks : 70

1 Attempt **all** questions : **1×15=15**

(1) Isolation of cells from tissue is
   (A) Disaggregation
   (B) Separation
   (C) Dispersed tissue
   (D) All

(2) Successfully done animal tissue culture
   (A) Carrell
   (B) Gerberg
   (C) Harrison
   (D) Morga

(3) ET Method expand
   (A) Eye transfer
   (B) Embryo transfer
   (C) Embryonic cell transfer
   (D) none

(4) Animal cell staining
   (A) Typan blue
   (B) Acid fast
   (C) Latin blue
   (D) Congo blue

(5) Which is true in cloning technology
(A) gene of two cells
(B) fertilization of somatic cells
(C) genetically identical
(D) All

(6) Expand IVF _____

(7) _____ and _____ are examples of animal vectors.

(8) Serum should be sterilized by _____

(9) _____ and _____ physiochemical properties of MGM medium.

(10) _____ and _____ are types of cell line.

(11 to 15 Match the following :

(11)	Media	(a)	Micro chamber
(12)	Natural media	(b)	finite
(13)	Cryopreservation	(c)	MGM
(14)	Low yield cell line	(d)	BSS
(15)	Organ culture	(e)	liquid nitrogen

2 Attempt any five questions : **3×5=15**

(1) Define cell line and types.

(2) Describe transgenic animal with example.

(3) Define animal tissue applications.

(4) Explain cryopreservation.

(5) Draw a diagram of Bioreactor.

(6) Describe cell growth curve.

3 Attempt any four questions : **5×4=20**

(1) Describe properties of animal culture medium.

(2) Explain hybridoma and give application.

(3) Describe organ culture and their methods.

(4) Define bioreactor and explain their parts.

(5) Describe IVF method and application.

4 Attempt any two questions : **10×2=20**

(1) Explain types of enzymatic disaggregation methods.

(2) Describe stem cell therapy and stem cell applications.

(3) Explain production, method and application of vaccines.
