

Total No. of Questions :8]

SEAT No. :

[Total No. of Pages :2

P1829

[5232] - 31

M.Sc. - II

BIOTECHNOLOGY

BT-31: Animal Biotechnology

(2008 Pattern) (Semester - III)

Time : 3 Hours]

[Max. Marks :80

Instructions to the candidates:

- 1) Attempt a total of five questions selecting atleast two questions from each section.*
- 2) Answer to the section must be written on separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right indicate full marks.*

SECTION - I

Q1) Explain in detail any one method of establishment of cell line. **[16]**

Q2) a) Write a note on gene banking. **[8]**

b) Describe artificial insemination. **[8]**

Q3) Explain :

a) Purification of stem cells. **[8]**

b) Livestock breeding and their productivity. **[8]**

Q4) Write short note on any two : **[16]**

a) Media formulation in ATC.

b) Cell sorting.

c) Therapeutic Application of stem cells.

P.T.O.

SECTION - II

Q5) Explain in detail method to generate transgenic animals. [16]

Q6) Describe any one mouse model to study human disease. [16]

Q7) Explain : [16]

- a) Germ cell storage.
- b) histotypic culture.

Q8) Write short notes on any two : [16]

- a) Characterization of cells in culture.
- b) Any two methods to detect mycoplasma contamination.
- c) Problems associated with transgenic animals.

