DRR-1689
B. Sc. / M. Sc. (Int. Biotechnology)
(Sem. VI) Examination
April / May - 2016
CORE-1 - 06 BT 22 : Animal Biotechnology

Time : 2 Hours] [Total Marks : 50

Instructions :
(1) Fill up strictly the details of signs on your answer book.

(2) Figures to the right indicate full marks.

(3) Draw neat and labeled diagrams wherever necessary.

1 Answer in brief : (any Four) 8
(a) What are disadvantages of animal tissue culture?
(b) Name two commercially available continuous cell lines.
(c) Define Transformed cell line.
(d) Enlist types of junctions between the cells.
(e) Mention only two criteria for sub culturing of cells.

2 Attempt : (any two) 14
(a) Applications of animal biotechnology in various fields.
(b) Explain differentiation and its regulation in detail.
(c) Explain the steps of primary culture with suitable example.
3  Explain in Detail: (any two)
   (a) Advantages and disadvantages of serum free media.
   (b) Discuss criteria for subculture for cell lines and the technique of it.
   (c) Explain preparation and sterilization of media in detail.

4  Attempt: (any two)
   (a) Enlist the instruments used in animal tissue culture and discuss any one of them in detail.
   (b) Discuss cell proliferation and control of cell proliferation in detail.
   (c) What are the causes of cross contamination and how it can be avoided?