DRR-1827
B. Sc. / M. Sc. (Sem. VI)
(Int. Biotechnology) Examination
April / May - 2016
Core-1, Course-06 : Animal Biotechnology

Time : 2 Hours] [Total Marks : 50

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

Name of the Examination : B. Sc./M. Sc. (SEM. 6) (INT. BIOTECHNOLOGY)
Name of the Subject : CORE-1, COURSE-06 : ANIMAL BIOTECHNOLOGY

(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 cadherins and their role in cell adhesion?
   (b) Define complete media.
   (c) PBLC is classical example of which type of culture and why?
   (d) Name any two commercial product produced with the help of mammalian culture.
   (e) Give examples of enzymes used in Disaggregation of the cells.

2 Attempt : (any two) 14
   (a) Describe the advantages and disadvantages of animal cell culture.
   (b) Physicochemical properties of media.
   (c) Explain the types of Laminar hood with their principle and functioning.
3  Explain in Detail: (any two)
   (a) Explain warm and cold trypsinization technique for
disaggregation of the tissue.
   (b) Primary culture with an example.
   (c) Different types of animal cell culture.

4  Attempt: (any two)
   (a) Discuss design and control of freezer stock.
   (b) Discuss subculture in detail and explain the technique.
   (c) Explain differentiation and its regulation in detail.