



**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)

<p>नीचे दशांशवैल निशानीवाणी विगतो उत्तरवडी पर अवश्य क्षभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : ☛ <b>B. Sc./M. Sc. (SEM. 6) (INT. BIOTECHNOLOGY)</b></p> <p>Name of the Subject : ☛ <b>CORE-1, COURSE-06 : ANIMAL BIOTECHNOLOGY</b></p> <p>☛ Subject Code No. : <b>1 8 2 7</b> ☛ Section No. (1, 2.....) : <b>Nil</b></p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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- (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) PBLG 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) 14**
- (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) 14**
- (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.
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