Total No. of Questions :6]

SEAT No. :

P1832

[Total No. of Pages : 2

[5232] - 34

M.Sc.

BIOTECHNOLOGY

BT - 33b : Advanced Immunology

(2008 Pattern) (Semester - III)

Time : 1½ Hour] *[Max. Marks : 40*

Instructions to the candidates:

1) ***Attempt a total of four questions selecting atleast two questions from each section.***
2) ***Answer to the sections 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) a) Describe the structure and role of Lymph node. **[5]**

b) Give a brief account of B - cell and signal transduction. **[5]**

Q2) a) Explain Inflammation physiology. **[5]**

b) Write the role of regulatory proteins in complement activation. **[5]**

Q3) Write explanatory notes on:

a) Hyperacute rejection of graft. **[5]**

b) Diabetes mellitus. **[5]**

P.T.O.

SECTION - II

Q4) a) Give a concise account of SCID - Mouse Model. **[5]**

b) Write importance of phage display technology. **[5]**

Q5) a) What are chimeric antibodies? Describe various types of chimeric antibodies in brief. Write their applications. **[5]**

b) How Recombinant Vector Vaccines are produced? Give an example of Recombinant Vaccine for human use. **[5]**

Q6) Write explanatory notes on:

a) Molecular Mimicry. **[5]**

b) Application of Stemcells. **[5]**