



SD-3724

M. Sc. (Sem. VIII) (Int. Biotech.) Examination

April / May - 2011

IBT-804 : Immunotechnology & Virology

Time : 3 Hours]

[Total Marks : 70

Instruction : (1)

नीचे दशांशविक \leftarrow निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of \leftarrow signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
\leftarrow M. Sc. (Sem. VIII) (Int. Biotech.)	<input type="text"/>
Name of the Subject :	<input type="text"/>
\leftarrow IBT-804 : Immunotechnology & Virology	<input type="text"/>
\leftarrow Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="4"/> \leftarrow Section No. (1, 2,.....) : <input type="text" value="Nil"/>	<input type="text"/>
	Student's Signature

2. Figures to the right indicate full marks.
3. Draw neat and labelled diagrams wherever necessary.

- 1 Explain in detail **Any Two**: (18)
 - (a) What are viruses? How titration of viruses is carried out? Explain.
 - (b) Elaborate on biochemistry of viruses.
 - (c) State the physical, chemical and serological methods for virion research.
- 2 Attempt **Any Two**: (18)
 - (a) Elaborate Structure and multiplication cycle of Retroviruses.
 - (b) Describe the genome organization, replication and gene expression in Herpes viruses.
 - (c) Explain in detail plant viruses' transmission by nematodes and fungi.
- 3 Explain in detail **Any Two**: (18)
 - (a) What are engineered antibodies? Give its Application.
 - (b) Selection and screening methods for positive hybrids.
 - (c) What do you mean by hybridoma technology? Elaborate the technique for production of monoclonal antibodies.
- 4 Explain **Any Two** of the following: (16)
 - (a) Mechanism of immune escapes by tumour cells.
 - (b) Immunotherapy of cancer.
 - (c) SCID mice.