



SB-2718

**M. Sc. (Microbiology) (Sem - II) (Part - I)
Examination**

March / April – 2011

MB - 203 Immunology & Immunotechnology

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दर्शायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
← M. SC. (MICROBIOLOGY) SEM - II (PART - I)	<input type="text"/>
Name of the Subject :	<input type="text"/>
← MB - 203 IMMUNOLOGY & IMMUNOTECHNOLOGY	<input type="text"/>
← Subject Code No. : <input type="text"/> 2 <input type="text"/> 7 <input type="text"/> 1 <input type="text"/> 8 ← Section No. (1, 2,.....) : <input type="text"/> Nil	<input type="text"/>
	Student's Signature

(2) Figures to the **right** indicate full marks of the question.

(3) Draw neat and labelled diagrams whenever necessary.

1 Answer the following (any three) 18

- Write a note on T-cell independent B-cell activation.
- Explain in detail about class II MHC molecules with its structures.
- Explain the signal transduction process in B-cell activation.
- Draw the basic structure of the $\alpha\beta$ T cell receptor and give comparative account with antigen and MHC molecules.

2 Answer the following (any three) 18

- Discuss the hypothetical theories behind foetus tolerance in human being.
- Explain about the different body responses towards the alloantigen.
- Elaborate on proto-oncogenes and oncogenes and their normal functions.
- Discuss in detail about tumor antigens.

- 3** Answer the following : (any **three**) **18**
- (i) Discuss in detail about Limiting dilution culture and ELISPOT assay.
 - (ii) Write a note on homogenous T-cell lines.
 - (iii) Explain use of antibody-coated magnetic beads and FACS analysis for isolation of lymphocytes.
 - (iv) Discuss techniques used for detection and characterization of antibodies.
- 4** Answer the following : (any **two**) **16**
- (i) Write a note on adaptive antigen-specific cytotoxic lymphocyte therapy.
 - (ii) Discuss about the use of engineered antibodies used for cancer therapy.
 - (iii) Write a note on chemoconjugates.
-