



R-3811-12

M. Sc. Int. Biotechnology (Sem. IV) Examination

May / June - 2010

IBT - 404 : Immunology - I

(New Syllabus)

Time : 3 Hours]

[Total Marks : 70

R-3811

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लिखवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. SC. INT. BIOTECHNOLOGY (SEM. 4)

Name of the Subject :
IBT - 404 : IMMUNOLOGY - 1 (NEW)

Subject Code No. : 3 8 1 1 Section No. (1, 2,.....) : 1

Seat No. :

Student's Signature

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagrams whenever necessary.
(4) Both sections must be written in separate answer books.

- 1 Define following terms : 6
(a) Adaptive Immunity
(b) Inflammation
(c) Hapten
(d) Hinge region
(e) Epitopes
(f) HGPRT.

- 2 (a) Explain in detail about various types of immunity. 7
(b) Discuss in detail about physiological barriers of defense mechanisms. 7

OR

- 2 Describe in detail various antibody classes with its structure and biological functions. 14

- 3 Write notes : (any three) 15
(a) Monoclonal antibodies
(b) Factor influencing immunogenicity
(c) Clonal Selection theory
(d) Generation of antibody diversity.

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[Contd...

R-3812

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="text"/> M. SC. INT. BIOTECHNOLOGY (SEM. 4)	<input type="text"/> Student's Signature
Name of the Subject :	
<input type="text"/> IBT - 404 : IMMUNOLOGY - 1 (NEW)	
Subject Code No. : <input type="text"/> 3 <input type="text"/> 8 <input type="text"/> 1 <input type="text"/> 2	Section No. (1, 2,.....) : <input type="text"/> 2

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagrams whenever necessary.
(4) Both sections must be written in **separate** answer books.

- 4 Define following terms : 6
- (a) Antigen Presenting Cell
 - (b) Western Blot
 - (c) Haematopoiesis
 - (d) Immunofluorescence
 - (e) Avidity
 - (f) Apoptosis.
- 5 (a) Explain in detail *In vivo* antigen-antibody reactions. 7
(b) Explain precipitation reactions. 7
- OR**
- 5 (a) Discuss in detail about primary immunodeficiency disorders. 7
(b) Describe in detail the cells of the immune system. 7
- 6 Write notes : (any three) 15
- (a) Bone marrow
 - (b) Hypersensitivity
 - (c) ELISA
 - (d) RIA.