



RN-3827

M. Sc. (Sem. V) (In Biotechnology) Examination

May / June – 2010

IBT 505 : Immunology & Medical Microbiology

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. Sc. (Sem. 5) (Integrated Biotechnology)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="IBT 505 : Immunology & Medical Microbiology"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="7"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1&2"/>	
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.

SECTION - I

- 1 Answer the following : 6
 - (a) Define : Immunization
 - (b) Define : Variolation
 - (c) Define : Attenuation.
 - (d) Enlist at least two parasitic infectious agents.
 - (e) Define : Subunit vaccine
 - (f) Enlist at least two intracellular bacterial pathogens.

- 2 Discuss in detail about immunity to viruses. 14

OR

- 2 (a) Explain in detail about vaccine designing. 7
(b) Explain the mechanism of DNA vaccines. 7

- 3 Write short notes on : (any **three**) 15
 - (a) Bacterial mechanisms to evade host defense
 - (b) Live attenuated vaccines
 - (c) Cellular immune response to viruses
 - (d) Host defense to fungal infections
 - (e) Immunization.

SECTION - II

- 4 Define the following : 6
- (a) Immunodeficiency
 - (b) Agammaglobulinaemia
 - (c) Ataxia
 - (d) Mycoses
 - (e) Encephalopathies
 - (f) Subcutaneous infection.

- 5 Discuss in detail about the congenital immunodeficiency disorders. 14

OR

- 5 (a) Elaborate on Clostridium as bacterial pathogen for humans. 7
- (b) Explain about the systemic mycoses. 7

- 6 Write short notes on : (any three) 15
- (a) Clinical features of HIV
 - (b) Therapeutic approach to immunodeficiency
 - (c) Superficial fungal infections
 - (d) Amoebic dysentery
 - (e) Leprosy.