



**RR-0836**

**Third Year B. Sc. Examination**

**March / April – 2010**

**Microbiology : Paper - VII**

*(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="T. Y. B. Sc."/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Microbiology : 7"/>	<input type="text"/>
Subject Code No. : <input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="3"/> <input type="text" value="6"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	<input type="text"/>
	<input type="text" value="Student's Signature"/>

- (2) Figures to the right indicate full marks of the question.  
(3) Draw neat and labelled diagram wherever necessary.

1 Answer the following :

14

- (a) Define :
- negribodies
  - buboes.
- (b) Enlist two staphylococcal skin infection.
- (c) State the four distinguishable characteristics for specific and non-specific immunity.
- (d) Enlist the major species of causative agent responsible for malaria.
- (e) Explain :
- Gnotobiotic
  - Probiotics.
- (f) What is pandemic and epidemic?
- (g) State the name of Hypersensitivity types.

- 2** Comment on/Explain any **three** of the following : **15**
- (a) ROIs and RNIs play important role in destruction on infectious agent by phagocytic cell.
  - (b) There are various ways to break the cycle of hospital infection.
  - (c) Poliomyelitis virus can multiply at specific sites of human body.
  - (d) There are many reasons to have knowledge of the normal human microbiota.
  - (e) The major histocompatibility complex molecules play dominant role in transplant rejection.
- 3** Attempt any **one** of the following : **10**
- (a) Explain the mechanism of Type-I hyper sensitivity reaction and its mediators.
  - (b) Explain pathogenesis, symptoms, and diagnosis of pulmonary tuberculosis.
- 4** Attempt any **two** of the following : **16**
- (a) Discuss the causative agent, pathogenesis and treatment of cholera.
  - (b) Describe pathogenesis and symptoms of tetanus.
  - (c) Describe the general structure of Antibody. State its different classes.
  - (d) Explain the biochemical events of inflammation.
- 5** Write short notes on any **three** of the following : **15**
- (a) Dengue : Etiology and transmission
  - (b) Syphilis : Stages and symptoms
  - (c) Immunofluorescence
  - (d) Vaccine : Types with example.