



RF-3429-30

M. Sc. (Part - I) Examination

April / May - 2010

Microbiology : Paper - III

(Medical Microbiology & Immunology)

Time : 3 Hours]

[Total Marks : 52

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. 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. - 1"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MICROBIOLOGY - 3"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="2"/> <input type="text" value="9"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1&2"/>	<input type="text"/>
Student's Signature	

1 (a) What are cytokines? Describe in detail properties of cytokines. 6

OR

(a) Explain pathogenesis of HIV infection. 6

(b) Explain disk diffusion method of drug susceptibility testing. 6

OR

(b) Describe in detail structure of MHC class I and MHC class II molecules. 6

2 (a) Describe attachment and entry of microorganisms in gastrointestinal tract. 10

OR

(a) What is complement? Explain classical and alternative pathways of complement activation. 10

- 3** Comment/describe any three : **15**
- (a) There are numerous variants of ELISA.
 - (b) PCR permits synthesis of limitless quantities of a target nucleic acid sequence in clinical samples.
 - (c) Leprosy causes deformity and disfigurement in patients suffering from it.
 - (d) Direct spread of microorganisms involve many microbial factors produced by them.
 - (e) T cells play important role in graft rejection.
- 4** Write short notes on any three : **15**
- (a) Clinical uses of tumor markers
 - (b) Immunofluorescence
 - (c) Live, attenuated vaccines
 - (d) Pathogenesis of paralytic poliomyelitis
 - (e) Inflammatory barrier in innate immunity.
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