



AB-3138
Third Year B. Sc. (Sem. V) Examination
March/April - 2015
Microbiology : Paper - MB - 14
(Immunology) (New Course)

Time : Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दर्शावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : Third Year B. Sc. (Sem. 5)</p> <p>Name of the Subject : Microbiology : Paper - MB - 14 (New)</p> <p>Subject Code No. : 3 1 3 8 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : [][][][][][][]</p> <p style="text-align: center;">Student's Signature</p>
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- (2) Figures to the **right** indicate full marks of the question.
(3) Draw neat and labelled diagrams wherever **necessary**.

1 Give specific answer : 12

- (1) What is PMNs ? State granulocytes.
- (2) Enlist two differences between invasiveness and infectivity.
- (3) What is antibody ? State the types of antigen antibody reaction.
- (4) Define term : Vector and fomite.
- (5) What is ELISA ? State its significance.
- (6) State the word vaccinomics. Give its suitable example.

2 Comment on / Explain any **two** of the following : 12

- (1) Types - II hypersensitivity reaction is called cytolytic or cytotoxic.
- (2) Active and passive immunity having contrast.
- (3) The structure of I_g G molecule considered as the model for all five Immunoglobulin classes.

- 3** Attempt any **two** of the following : **16**
- (1) What is agglutination ? Enlist the factors affecting agglutination and describe complement fixation test in detail.
 - (2) Define hypersensitivity. Discuss the mechanism of type-I hypersensitivity reaction together with systemic and localised anaphylaxis.
 - (3) Enlist the cell, tissues and organs of immune system. Briefly explain the tissues and organ of immune system.
- 4** Write short notes on any **two** of the following : **10**
- (1) Bacterial toxins
 - (2) B-cell activation
 - (3) Immunoelectrophoresis technique.
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