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) 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 IgG molecule considered as the model for all five Immunoglobulin classes.
3 Attempt any two of the following:

(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:

(1) Bacterial toxins

(2) B-cell activation

(3) Immunelectrophoresis technique.