M. Sc. Bioscience (Microbiology) (Sem. III)  
Examination  
March / April - 2016  
BIOS - (M) - 303 - Immunology

Time : 3 Hours]  [Total Marks : 70

Instructions: (1)

(2) Figures to the right indicate full marks.
(3) Draw neat and labeled diagrams wherever necessary.

Q.1 Answer the following questions (Any Two). (18)

A. Explain the first line of defense of the body.
B. Explain the specific mechanisms exerts by adaptive immunity.
C. Elaborate the interaction between MHC molecule and peptide.

Q.2 Answer the following questions (Any Two). (18)

A. Describe the cellular organization of thymus and its role in immune system.
B. Discuss the B cells development and maturation.
C. Explain the secondary lymphoid organs.

Q.3 Attempt any one question. (18)

A. Explain the role of various cytokines in development of immune responses.

OR

B. Elaborate the cell-mediated and humoral immunity.

Q.4 Answer the following questions (Any Two). (16)

A. Explain the several mechanisms by which tumor cells appears to evade the immune system
B. Describe the mechanisms for induction of autoimmunity.
C. Explain the type II and III hypersensitivity.