

**2015**

*Time : 2 hours*

*Full Marks : 40*

*The questions are of equal value.*

*Answer any **four** questions.*

**(MOLECULAR IMMUNOLOGY)**

1. Define Immunity. Discuss the organisation and structure of lymphoid organs of the immune system. Mention their importance.
2. Write short notes on the following :
  - (a) B. lymphocytes and T. lymphocytes
  - (b) Dendritic Cells
3. Describe the detailed structure of class I MHC molecules. How such molecules bind to the peptides of endogenous origin ?

4. Write short notes on the following :
  - (a) Structure of IgG
  - (b) Generation of antibody diversity
5. What is Complement System ? Discuss on the various pathways of complement system.
6. Write short notes on the following :
  - (a) Hypersensitivity
  - (b) Structure of HIV
7. Describe the principle of vaccination and discuss the various types of vaccines used in vaccination.
8. Write short notes on the following :
  - (a) Catalytic Antibody
  - (b) ELISA

