

## Immunology &amp; Immunotechnology

(26)

QP Code :12570

(3 Hours)

[ Total Marks : 80

- N.B :
- (1) Questions No.1 is compulsory.
  - (2) Attempt any three questions out of remaining five questions.
  - (3) Draw diagram wherever necessary.

1. Explain briefly the following (any four) 20
  - (a) Antigenicity
  - (b) Interferons
  - (c) Phagocytosis
  - (d) Immunological tolerance
  - (e) Spleen
  - (f) MHC Restriction.
2.
  - (a) Justify "Innate Immunity is the first line of defence". 10
  - (b) Describe the structure of Immunoglobulin molecule in detail and write its function. 10
3.
  - (a) Explain how B - cell and T - cells co-ordinate to bring about Adaptive immunity. 10
  - (b) Explain complement proteins in complement system. 10
4.
  - (a) Describe the technique used for the production of monoclonal antibodies. 10
  - (b) What are vaccines? Write about different types of vaccines. 10
5.
  - (a) What is ELISA? Explain different types of ELISA. 10
  - (b) Describe Acquired Immunodeficiency diseases with reference to AIDS virus. 10
6.
  - (a) Write in detail about major histocompatibility complex. 10
  - (b) Explain Cytosolic antigen processing and presentation. 10