



VII Semester M.Sc. (Integrated Course) Degree Examination, Dec. 2017/Jan. 2018  
(CBCS)  
BIOLOGICAL SCIENCES  
IBS 703 : Immunology

Time : 3 Hours

Max. Marks : 70

***Instruction : Illustrate wherever necessary.***

SECTION – A

1. Answer **any ten** of the following in **three to five** sentences : **(10×2=20)**
- a) B-Lymphocytes
  - b) Phagocytosis
  - c) Epitopes
  - d) Competent cells
  - e) Cytokines
  - f) Macrophages
  - g) Agglutination
  - h) Cytotoxicity
  - i) ELISA
  - j) Immunization
  - k) Immune tolerance
  - l) Immunosuppressive drugs.

SECTION – B

Write critical notes on **any four** of the following : **(4×5=20)**

- 2. Innate immunity.
- 3. Immunofluorescence.
- 4. Major histocompatibility complex.



5. Type I hypersensitivity.
6. Complement system and its biological significance.
7. Antigen and antibody interactions.
8. Autoimmunity.

SECTION – C

Give a comprehensive account on **any two** of the following : **(2×15=30)**

9. Discuss in detail the structural organization and functions of lymph node.
  10. Describe the structure and functions of immunoglobulins.
  11. Give a detailed account on the role of cytokines in immune response.
  12. Give a detailed account on immunotechniques and their applications.
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