

S.No. 11

12PBC08

(For the candidates admitted from 2012–2013 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Third Semester

Biochemistry

CONCEPTS OF IMMUNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Describe the primary lymphoid organs and its function.

Or

- (b) Differentiate between T cell and B cell.

2. (a) Write short notes on general structure of antibody.

Or

- (b) What is HLA typing? Explain it.

3. (a) What are the factors responsible for autoimmunity?

Or

(b) How Recombinant vaccines are produced?

4. (a) Write an brief overview on immunodiagnosis of tumors.

Or

(b) Enlist the immunological abnormalities in AIDS.

5. (a) Illustrate the principle and applications of Nephelometry.

Or

(b) How will you quantify immunoglobulins by RID?

SECTION B – (5 × 10 = 50 marks)

Answer ALL questions.

6. (a) Compare and contrast Innate and Acquired immunity.

Or

(b) Write a detailed note on cells involved in immune system and their functions.

7. (a) Elaborate Antibody diversity.

Or

(b) Give a detailed note on Classical pathway of complement system.

8. (a) Discuss about Type III and Type IV hypersensitivity reactions.

Or

(b) Write an essay on the production of Monoclonal antibodies and their applications.

9. (a) Enumerate the importance of Tumor antigens. Enlist the applications

Or

(b) Discuss in detail about the B cell deficiency disorders.

10. (a) Describe the salient features of antigen antibody reactions.

Or

(b) Explain in detail about isolation and characterization of Dendritic Cells and Macrophages.