

S.No. 57

12PBT04

(For the candidates admitted from 2012–2013 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Second Semester

Biotechnology

IMMUNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer ALL the questions.

1. (a) Give a short note on history of immunology.

Or

- (b) Describe primary lymphoid organ, its structure and functions.

2. (a) Give a short note on Epitope and its importance.

Or

- (b) Write a short note on adjuvants.

3. (a) Explain the salient features of antigen-antibody reactions.

Or

- (b) Briefly describe the classical pathway of complement activation.

4. (a) Give a short note on graft rejection.

Or

- (b) Explain Type I hypersensitivity reaction.

5. (a) Explain purification of macromolecules as vaccines.

Or

- (b) Discuss FACS in detail.

SECTION B — (5 × 10 = 50 marks)

Answer ALL the questions.

6. (a) Explain in detail the types of immunity.

Or

- (b) Discuss the role of bone marrow and its significance.

7. (a) Discuss the various types of immunoglobulins structure and functions.

Or

- (b) Explain cell mediated immune response.

8. (a) Give a detailed note on Cytokine and its application.

Or

- (b) Explain MHC in detail.

9. (a) Explain transplantation immunology and its importance.

Or

- (b) Explain immunosuppressive therapy and its application.

10. (a) Describe the production of monoclonal antibody.

Or

- (b) Explain in detail HLA typing.