

S.No. 2586

P 16 BT 22

(For candidates admitted from 2016–2017 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

Biotechnology

IMMUNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20)

Answer ALL questions.

Write short notes on the following

1. Haematopoiesis.
2. Immunoglobulins
3. Types of immune response.
4. Autoimmunity.
5. Define vaccine.
6. Monoclonal antibodies.
7. Define Immunity.

8. Immune response.
9. Acquired immunity.
10. Define transplantation.

SECTION B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) Give an account on Immunoglobulins.
Or
(b) Explain about lymphoid tissues.
12. (a) Detailed account on TCR complex.
Or
(b) Explain about exogenous and endogenous antigen.
13. (a) Detailed account on HLA typing.
Or
(b) Explain a detailed account on Phagocytosis.
14. (a) Explain about Recombinant DNA.
Or
(b) Short notes on Active and passive immunization.

15. (a) Write a short note on graft rejection.

Or

- (b) Write short notes on CD4+ T Cells.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Give an detailed account on principles of cell signaling.
17. Give an account on T cell development, maturation, activation and Differentiation.
18. Give an brief account on Major Histocompatibility complex- MHC Gene.
19. Explain about Conjugate vaccines, production and its applications.
20. Describe an account on Autoimmune diseases.