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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2024**

Biotechnology

BTY 5B 08—IMMUNOLOGY AND IMMUNOTECHNOLOGY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)*All questions can be answered.**Each question carries 2 marks.*

1. Anaphylaxis.
2. Humoral immunity.
3. Phagocytes.
4. MALT.
5. Adjuvants.
6. SCID.
7. HLA.
8. Allotype and idiotype.
9. Hashimoto's disease.
10. TNF.
11. Flow cytometry.
12. Recombinant vaccine.

(Ceiling = 20 marks)

Turn over

Section B (Paragraph Type Questions)

*All questions can be answered.
Each question carries 5 marks.*

13. What are the factors affecting immunogenicity ?
14. Describe the classical pathway of compliment activation.
15. What are immuno toxins ? How it is use full to treat human diseases.
16. Give a brief note on systemic autoimmune diseases.
17. Describe the principle, and applications of western blotting.
18. Discuss different passive immunization methods.
19. Describe the nature and properties of an antigen. (Ceiling = 30 marks)

Section C (Essay Type Questions)

Answer any one, which carries 10 marks.

20. Describe different types of antigen and antibody interactions.
21. Explain any four advanced immunological techniques employed for disease diagnosis. (1 × 10 = 10 marks)