D 70952	(Pages: 2)	Name	••••
		Reg. No	••••
THIRD S	SEMESTER M.Sc. DEGREE () NOVEMBER 2	•	

(CUCSS)

General Biotechnology

GN 3C 4—IMMUNOLOGY

Time: Three Hours Maximum: 36 Weightage

Section A

Answer all questions.

Each question carries a weightage of 1.

1. Immunological memory. 2. Hematopoiesis.

3. Hapten. 4. Precipitation reaction.

5. NK cells. 6. C3b.

7. Grave's disease. 8. HIV.

9. Xenograft. 10. HAT medium.

 $(10 \times 1 = 10 \text{ weightage})$

Section B

Answer any **seven** questions. Each question carries a weightage of 2.

- 11. Explain briefly any two factors affecting immunity.
- 12. Give a brief account on distribution and functions of dendritic cells.
- 13. How do superantigens elicit immune response?
- 14. Explain the mechanism of haemagglutination reaction.
- 15. What are the events involved in activation of B lymphocytes?
- 16. Explain the therapeutic use of cytokines.
- 17. Write a short note on various reasons for onset of autoimmune diseases.
- 18. What are the evasive mechanisms adapted by helminth parasite against host immune responses?

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- 19. Explain the types and applications of immunosuppressive agents.
- 20. Distinguish between polyclonal and monoclonal antibodies.

 $(7 \times 2 = 14 \text{ weightage})$

Section C

Answer any **two** questions.

Each question carries a weightage of 6.

- 21. Explain the mechanisms of antigen and antibody interactions.
- 22. How does immune system manifest Type-I hypersensitivity reaction?
- 23. Elucidate various types of immune responses expressed against cancer.

 $(2 \times 6 = 12 \text{ weightage})$