

D 30579

(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, NOVEMBER 2022**

Microbiology

MBG 5B 08—IMMUNOLOGY

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

**Section A (Short Answers Type Questions)***Answer all questions.**Each question carries 2 marks.*

1. Lymph.
2. What is inflammation ?
3. What are NK cells ?
4. GALT.
5. What is species immunity ?
6. What are adjuvants ?
7. What is shocking dose in anaphylaxis ?
8. Autograft.
9. Complement.
10. HLA typing.
11. Edward Jenner.
12. Opsonization.
13. Epitope and paratope.
14. Antigen presentation.
15. MHC.

(Maximum 25 marks)

**Section B (Paragraph Type Questions)***Answer all questions.**Each question carries 5 marks.*

16. Write a note on thymus.
17. Innate immunity.

**Turn over**

18. Complement system and its activation.
19. Western blotting.
20. Auto immunity.
21. Immunology of cancer.
22. Delayed type hypersensitivity.
23. Hybridoma technology.

(Maximum 35 marks)

### Section C (Essay Type Questions)

*Answer any **two** questions.*

*Each question carries 10 marks.*

24. Explain the mechanism and types of type I hypersensitivity reactions.
25. Explain with a diagram the structure and classification of antibodies.
26. Write an essay on immunological barriers of innate immunity.
27. Explain various types and mechanism of acquired immunity.

(Maximum 20 marks)