



K22U 1758

Reg. No. : .....

Name : .....

IV Semester B.Sc. Degree (CBCSS – Supplementary) Examination, April 2022  
(2016-18 Admissions)

CORE COURSE IN MICROBIOLOGY

4B05 MCB : Immunology

Time : 3 Hours

Max. Marks : 40

**Instruction** : Draw diagrams *wherever* necessary.

SECTION – A

Answer **all** questions. **Each** question carries 1 mark.

1. A person carries the pathogen even after recovery from infection is called \_\_\_\_\_.
2. The dendritic cells present in skin are called \_\_\_\_\_.
3. Name the personality proposed Clonal selection theory of immune response.
4. The graft transplanted between members of different species is called \_\_\_\_\_.

(4×1=4)

SECTION – B

Answer **any seven** questions. **Each** question carries 2 marks.

5. Differentiate bacteremia and septicemia.
6. What is iatrogenic infection ?
7. How the skin acts as an innate immune mechanism ?
8. Describe the structure of plasma cell.
9. Write on types of haptens.

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10. What is a 'germinal centre' ?
11. Define antigenic determinant.
12. What is 'hay fever' ?
13. What are the characteristics of 'first set rejection reaction' ?
14. Write on VDRL test.

**(7×2=14)**

**SECTION – C**

Answer **any four** questions. **Each** question carries **3** marks.

Write short notes on :

15. Virulence factors of micro-organisms.
16. Inflammation.
17. Factors influencing immunogenicity of an antigen.
18. Complement fixation test.
19. Structure and functions of IgM.
20. Tumour antigens.

**(4×3=12)**

**SECTION – D**

Answer **any two** questions. **Each** question carries **5** marks.

21. Discuss the structure and functions of cells involved in immune system.
22. Describe the principle of precipitation/agglutination reaction. Discuss various methods for performing agglutination reactions.
23. Write a note on different types of hypersensitivity reactions.
24. Discuss the characteristics of polyclonal and monoclonal antibodies. Write on the steps involved in the production of monoclonal antibodies.

**(2×5=10)**