

K19U 0588



Reg. No. : .....

Name : .....

**IV Semester B.Sc. Degree (CBCSS-Reg./Supp./Imp.)**  
**Examination, April 2019**  
**(2014 Admission Onwards)**  
**CORE COURSE IN MICROBIOLOGY**  
**4B05 MCB : Immunology**

Time : 3 Hours

Max. Marks : 40

**SECTION – A**

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

1. Physician induced nosocomial infections are called \_\_\_\_\_
2. The part of constant region present in the Fab fragment of antibody is called \_\_\_\_\_
3. The screening test for the diagnosis of syphilis based on flocculation reaction is \_\_\_\_\_
4. The non-specific lymphocytes involved in cell mediated immunity is \_\_\_\_\_ (4×1=4)

**SECTION – B**

(Answer **any seven** of the following. **Each** question carries **2** marks)

5. Define septicaemia.
6. Differentiate primary and secondary immune response.
7. What are idiotypes ?
8. Define MLD.
9. Describe the morphology of plasma cells.
10. Name two enzymes and their substrates widely used in ELISA.

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11. What is rheumatoid factor ?
12. What is GVHD ?
13. Define antibody affinity.
14. How artificially acquired active immunity develop in animal body ? (7×2=14)

SECTION - C

(Answer **any four** of the following. **Each** question carries **3** marks)

Write short notes on :

15. Methods of transmission of infections.
16. Classification of antigens.
17. Pernicious anaemia.
18. Immune response to allografts.
19. Immunofluorescence.
20. Phagocytosis. (4×3=12)

SECTION - D

(Answer **any two** of the following. **Each** question carries **5** marks)

21. Differentiate virulence and pathogenicity. What are the common virulence factors of microorganisms ? Write briefly on classification of infections.
22. With a suitable diagram describe the structure of an immunoglobulin.
23. Describe the steps in monoclonal antibody production. Add a note on application of monoclonal antibodies.
24. Discuss the mechanisms of different types of hypersensitivity reactions. Give example for each type. (2×5=10)