

K16U 0566



Reg. No. :

Name :

IV Semester B.Sc. Degree (CBCSS – 2014 Admn.-Regular)
Examination, May 2016

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. Pernicious anaemia is developed due to _____ hypersensitivity.
2. The cells that can produce and secrete antibodies are
3. The precipitation reaction method that can distinguish identity, partial identity and non-identity of antigens is
4. The active acquired immunity artificially developed in host body by the administration of **(4x1=4 Marks)**

SECTION – B

Answer very briefly on **any seven** of the following. **Each** question carries 2 marks.
Comment on the following.

5. LD₅₀.

Fd piece.

Thymus independent antigens.

Hybridoma technology.

6. Immune surveillance theory.

7. Heterophile agglutination test.

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- 11. NK cells.
- 12. Septicaemia.
- 13. Iatrogenic infections.
- 14. Lymph node.

(7×2=14 Marks)

SECTION - C

Answer **any four** of the following. **Each** question carries **3** marks.
Write short notes on.

- 15. Virulence factors.
- 16. Phagocytosis.
- 17. sIgA.
- 18. Rheumatoid arthritis.
- 19. Theories of antibody production.
- 20. GVHD.

(4×3=12 Marks)

SECTION - D

Answer **any two** of the following. **Each** question carries **5** marks.
Write essays on.

- 21. Describe the structure of immunoglobulin. Discuss how the structure explains the functions played by immunoglobulins in immune mechanisms.
- 22. Define infection. Write notes on different types and sources of infection.
- 23. What are the characteristics of antigen-antibody interactions? Write the principle and applications of ELISA and RIA.
- 24. Define hypersensitivity. Write notes on mechanism and clinical forms of type I hypersensitivity.

(2×5=10 Marks)