



K18U 093

Reg. No. :

Name :

IV Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)

Examination, May 2018

(2014 Admn. Onwards)

CORE COURSE IN MICROBIOLOGY

4B05 MCB : Immunology

Time : 3 Hours

Max. Marks :

SECTION – A

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

1. The person who acts as a carrier by acquiring pathogen from another carrier is called _____.
2. The antibody involved in type I hypersensitivity is _____.
3. The clonal selection theory of antibody production was proposed by _____.
4. Name one oncofoetal antigen expressed on tumour cells. (4x1=

SECTION – B

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

5. Define ID_{50} .
6. What is the role of neutrophils in immunity ?
7. What is the consequence of splenectomy in children ?
8. What is passive agglutination test ?
9. Differentiate T_H cells and T_C cells.
10. Why haptens are non-immunogenic ?

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11. What is 'prozone phenomenon' in antigen antibody interactions ?
12. What are the characteristics of 'first set rejection' reactions ?
13. Name two autoimmune diseases affecting thyroid gland.
14. Differentiate exotoxin and endotoxin. Give one example for each. (7×2=14)

SECTION – C

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

Write short notes on :

15. Sources of infection.
16. ELISA.
17. Inflammation.
18. Hybridoma technology.
19. Role of myelogenous cells in immunity.
20. Central lymphoid organs. (4×3=12)

SECTION – D

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

21. Define immunogen. Discuss the factors influencing immunogenicity of an antigen.
22. Describe the structure and characteristics of human antibody isotypes.
23. Discuss the mechanism and clinical forms of type I hypersensitivity.
24. What are the characteristics of antigen-antibody interactions ? Discuss the various methods of immunodiffusion tests. (2×5=10)