K17U 0644

Reg. No. : .....

Name : .....

IV Semester B.Sc. Degree (CBCSS -Reg./Sup./Imp.) Examination, May 2017
(2014 Admn. Onwards)
Core Course in Microbiology
4B05MCB : IMMUNOLOGY

Time : 3 Hours

Max. Marks : 40

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

SECTION – A

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

1. Transfusion reactions are developed due to _____ hypersensitivity.
2. The predominant antibody produced during primary immune response against an antigen is _____
3. The immunity acquired without activation of host immune system is called _____
4. The mechanism of precipitation and agglutination reactions is explained by _____ hypothesis. **(4×1=4)**

SECTION – B

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

Comment on the following.

5. HLA.
6. Immunofluorescence.
7. Thymus dependent antigens.
8. Fab fragment.

P.T.O.

9. Anatomical barriers of innate immunity.
10. Langerhan's cells.
11. RID.
12. ID_{50}.
13. Haptens.
14. Clonal selection theory.

(7×2=14)

SECTION – C

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

Write short notes on :

15. Agglutination reactions.
16. Different types of infections.
17. Delayed type hypersensitivity.
18. Inflammation.
19. Complement fixation test.
20. Organ specific autoimmune diseases.

(4×3=12)

SECTION – D

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

Write essays on :

21. Differentiate between polyclonal and monoclonal antibodies. Describe the production and applications of monoclonal antibodies.
22. Discuss the mechanism of allograft rejection. Add a note on clinical forms of rejection reactions.
23. Discuss the structure and functions of human immunoglobulin isotypes.
24. Define immunogen. What are the determinants of antigenicity of an immunogen ?

(2×5=10)
