

0042043



K19U 2202

Reg. No. :

Name :

V Semester B.Sc Degree (CBCSS- Reg./Sup./Imp.)

Examination, November-2019

(2014 Admn. Onwards)

CORE COURSE IN BIOCHEMISTRY

5B09 BCH : IMMUNOLOGY AND IMMUNOLOGICAL TECHNIQUES

Time : 3 Hours

Max. Marks : 40

SECTION - A

Answer **all** the questions. Each question carries **one** mark. (4×1=4)

1. Name two vaccines which contain attenuated viruses.
2. Which type of leukocyte is natural killer cell?
3. Give two examples for hapten.
4. Name the antibodies that fix complements.

SECTION - B

Answer any **seven** questions. Each question carries **two** marks.(7×2=14)

5. Mention the primary function of Lymph node.
6. What are hematopoietic stem cells?
7. Give the structural characteristics of macrophage.
8. What are epitopes?
9. Define avidity?
10. Define antigenicity and immunogenicity.

P.T.O.



11. Mention the principle of ELISA.
12. Which type of reaction is in widal test? Give its importance.
13. Define anaphylactic hypersensitivity.
14. What is autoimmunity and differentiate system and organ specific immunity?

SECTION - C

Answer any **four** questions. Each question carries **three** marks. **(4×3=12)**

15. Write note on any one central lymphoid organ.
16. Describe the major features of inflammation.
17. Differentiate agglutination and precipitation reactions.
18. Write the structure and functions of IgM.
19. Describe any one test to identify antigen or antibody.
20. Give cause and symptoms of rheumatoid arthritis.

SECTION - D

Answer any **two** questions. Each question carries **five** marks. **(2×5=10)**

21. Discuss the process of phagocytosis.
 22. Describe the maturation, activation and differentiation of B lymphocytes.
 23. Briefly explain the classical pathway of complement system.
 24. Describe hybridoma technology.
-