K24U 0934

Reg. No. : .....

Name : .....

IV Semester B.Sc. Degree (CBCSS – Supplementary/One Time Mercy Chance) Examination, April 2024
(2014 to 2018 Admissions)
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. Intrauterine infection leading to congenital malformations in developing foetus is called
2. Pulse polio immunization is aiming to develop _____ immunity in the community.
3. "Germinal centre" is observed in _____ lymphoid follicles.
4. VDRL test is a non-specific test for diagnosis of **(4×1=4)**

SECTION – B

Answer **any seven** questions. **Each** question carries **2** marks.

5. Discuss the role of normal flora of the body in innate immunity.
6. Differentiate mechanical vector and biological vector.
7. What is ADCC ?
8. What are the cardinal features of acute inflammation ?
9. What are haptens ? How haptens are made immunogenic ?

P.T.O.

10. Describe clonal selection theory of immune response.

11. What are the stages in antigen : antibody interaction *in vivo* ?

12. What is passive agglutination ?

13. What is GVH reaction ?

14. What are oncofoetal antigens ? **(7×2=14)**

SECTION – C

Answer **any four** questions. **Each** question carries **3** marks.
Write short notes on :

15. Methods of transmission of infections.

16. Characteristics of primary and secondary immune responses.

17. Classification of lymphocytes.

18. Immunodiffusion tests.

19. Rheumatoid arthritis.

20. Hybridoma technology. **(4×3=12)**

SECTION – D

Answer **any two** questions. **Each** question carries **5** marks.

21. Discuss the structure and functions of primary and secondary lymphoid organs.

22. Describe the basic structure of an immunoglobulin. Discuss the major experiments led to the discovery of structural model of immunoglobulin.

23. Describe the mechanism of development of type I hypersensitivity reactions. Write on the clinical types of type I hypersensitivity reactions.

24. Write notes on the following :
    a) Complement fixation test
    b) Coomb's test. **(2×5=10)**

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