



K20U 0890

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.) Examination, April 2020
(2014 Admn. Onwards)**

CORE COURSE IN MICROBIOLOGY

4 B05 MCB : Immunology

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams *wherever* necessary.

SECTION – A

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

1. A tumour associated transplantation antigen observed in patients is _____
2. The component present in HAT media used in hybridoma technology that inhibit *de novo* pathway of nucleic acid metabolism is _____
3. The dendritic cells present in the skin are known as _____
4. The hospital associated cross infections caused due to the therapeutic interventions is called _____

(4×1=4)

SECTION – B

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

Comment on the following :

5. Endogenous antigens
6. MLD
7. Septicaemia
8. Characteristics of acquired immunity

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9. Booster dose
10. Types of haptens
11. Payer's patches
12. Affinity maturation
13. VDRL test
14. Asthma.

(7×2=14)

SECTION – C

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

15. Inflammation
16. Characteristics and types of lymphocytes
17. Structure of IgG
18. Mechanisms of allograft rejection
19. Complement fixation test
20. Rheumatoid arthritis.

(4×3=12)

SECTION – D

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

21. Define infection. Discuss various sources and methods of transmission of infectious diseases.
22. Discuss the structure and functions of organs of immune system.
23. Write notes on the following :
 - i) Radioimmuno assay
 - ii) Enzyme linked immunosorbant assay.
24. Differentiate hypersensitivity and autoimmunity. Discuss the mechanism clinical presentation of Type IV hypersensitivity.

(2×5=10)