

D 50685

(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023**

Microbiology

MBG 5B 08—IMMUNOLOGY

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

*Wherever needed answers must be supported by structural illustrations and diagrams.***Section A (Short Answer Type Questions)***Answer all questions.**Each question carries 2 marks.*

Write briefly on : -

1. Karl Landsteiner.
2. Hematopoiesis.
3. IgA.
4. Idiotypic.
5. Ouchterlony immunodiffusion.
6. Tumor antigens.
7. GVH.
8. Horror autotoxicus.
9. Humoral immunity
10. HGPRT.
11. RIA.
12. NK cells.
13. Opsonization.

Turn over

14. Complement system.
15. Adjuvants.

(Maximum : 25 marks)

Section B (Paragraph Type Questions)

*Answer all questions.
Each question carries 5 marks.*

Write notes on :—

1. Complement pathways.
2. Cytokines and types
3. Immune complex disease.
4. Macrophage and its function.
5. MHC molecules.
6. Predisposing factors of antigenicity.
7. MALT.
8. Types of ELISA.

(Maximum : 35 marks)

Section C (Essay Type Questions)

*Answer any two questions.
Each question carries 10 marks.*

Write essay on :—

1. Describe different mechanism of hypersensitivity reactions.
2. Define Immunity. Explain the different types of Immunity.
3. Explain different types of Antigen-Antibody reactions ? Write briefly on precipitation reactions and its clinical applications.
4. Discuss the structure and functions of IgG with the help of a labelled diagram.

(Maximum : $2 \times 10 = 20$ marks)