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FIFTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION, NOVEMBER 2024

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. Interleukins.
- ✓ 2. Innate immunity.
- ✓ 3. Hybridoma technique.
- ✓ 4. Neutralization.
5. CFT.
- ✓ 6. Clonal selection theory.
- ✓ 7. Epitope vs paratope.
- ✓ 8. GALT.
- ✓ 9. Superantigen.
- ✓ 10. Atopy.
- ✓ 11. Fab.
- ✓ 12. Sandwich ELISA.
- ✓ 13. Inflammation.
- ✓ 14. Plasma cells.
- ✓ 15. Paul Ehrlich.

(Maximum 25 marks)

Turn over

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Section B

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

Write notes on :

1. Structure and functions of IgA.
2. Alternate pathway in complement.
3. Primary lymphoid organs.
4. Describe immune complex mediated hypersensitivity reactions.
5. Explain the characteristics of adaptive immunity.
6. Tumor antigens.
7. Allotype and isotypic determinants.
8. Categorize APCs.

(Maximum 35 marks)

Section C

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

Write essay on :

1. Explain briefly on various cells and functions of immune system. Describe the characteristics and functions of macrophages.
2. Discuss the mechanism and classifications of Autoimmune diseases with Example.
3. List out different types of Antigen-Antibody reactions. Write briefly on ELISA and agglutination reactions.
4. Give detailed account on transplantation immunology. Add the mechanism of graft rejection.

(2 × 10 = 20 marks)