



DCBT601

Reg. No.

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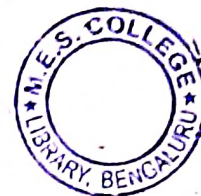
VI Semester B.Sc. (Theory) Examination July/August - 2024

BIOTECHNOLOGY

Immunology

(NEP Scheme Freshers 2023-2024 Onwards)

Paper : VII



Time : 2½ Hours

Maximum Marks :60

*Instructions to Candidates:*

1. All Parts are Compulsory.
2. Draw neat labelled diagram.

**PART - A**

**I. Write short notes on any Four of the following questions.**

**(4×2=8)**

1. Acquired immunity
2. Adjuvants
3. Cytokines
4. RIA
5. Toxoid
6. Hepatitis - B

**PART - B**

**II. Answer any Four of the following questions.**

**(4×5=20)**

7. What is immunity? Explain innate immunity. (2+3)
8. Briefly explain MHCs and its role in immune system. (2+3)
9. Write note on role of B-cell and T-cell lymphocytes in immunity. (2.5+2.5)
10. Explain ELISA and its importance in immuno diagnostics. (3+2)
11. Define agglutination reaction. Describe ABO Blood grouping and Rh typing. (2+3)
12. Explain Typhoid with its mode of infection and symptoms. (2+3)

**[P.T.O.]**



## PART-C

**III. Answer any Four of the following questions. (4×8=32)**

13. Explain the cells of immune system with their functions. (4+4)
  14. What are immunoglobulins (Igs). Describe their classification and functions. (2+4+2)
  15. Define compliment pathway. Explain classical pathway with schematic diagram and its functions. (2+6)
  16. What is Hypersensitivity? Explain in details type I and Type III Hypersensitivity. (2+3+3)
  17. Define Transplantation immunology. Write note on :
    - a) Phase in graft rejection.
    - b) Auto immune disorder. (2+3+3)
  18. Explain malaria its mode of infection, symptoms, control and treatment. (2+3+3)
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