

**Q.P. Code – 42643**

**Sixth Semester B.Sc. Degree Examination, September 2020**

*(CBCS – Semester Scheme)*

**Microbiology**

**Paper MBT 6.1 – IMMUNOLOGY AND MEDICAL MICROBIOLOGY**

*Time : 3 Hours]*

*[Max. Marks : 90*

*Instructions to Candidates :*

- 1) *Answer all questions.*
- 2) *Draw diagrams wherever necessary.*

**PART – A**

I. Answer any **TEN** questions in one or two sentences : **(10 × 2 = 20)**

1. Immunity
2. Antigenicity
3. IgM
4. Precipitation
5. Koplik's spots
6. Koch postulates
7. Isograft
8. Hypersensitivity
9. EBOLA
10. Toxoid
11. Chikungunya
12. Tetracycline

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**PART – B**

- II. Answer any **SIX** of the following : **(6 × 5 = 30)**
13. Describe the structure of Immunoglobulin.
  14. Discuss the role of APC's in immune response.
  15. Write a note on Immunohaematology.
  16. Write a note on pathogenesis and treatment of Shigellosis.
  17. Write a note on :
    - (a) Enterotoxin
    - (b) *Treponema pallidum*
  18. Write a note on :
    - (a) Ring worm infection
    - (b) Pathogenesis of Plasmodium
  19. Give an account of symptoms, pathogenesis and treatment of Hepatitis A.
  20. Give an account of mode of action of Penicillin and Nystatin.

**PART – C**

- III. Answer any **FOUR** of the following : **(4 × 10 = 40)**
21. Explain the steps involved in production of Monoclonal Antibodies. Add a note on its applications.
  22. Define vaccines and give an account on types of vaccines.
  23. Describe the symptoms and epidemiology of Tuberculosis and add a note on drug resistance.
  24. Give an account of clinical symptoms, pathogenesis, diagnosis and treatment of Poliomyelitis.
  25. Give an account of characteristics of antibiotics as chemotherapeutic agent.