

Faculty of Science
B. Sc (Microbiology) II-Year, CBCS –IV Semester
Regular Examinations –June/July, 2022
PAPER: Medical Microbiology and Immunology

Time: 3 Hours

Max Marks: 80

Section-A

- I. Answer any *eight* of the following questions (8x4=32 Marks)
1. Transient normal flora
 2. Attenuation
 3. WIDAL Test
 4. Paralytic polio myelitis
 5. Hydrophobia
 6. SARS
 7. Secondary organs of immune system
 8. NK cells
 9. Class II MHC
 10. Rheumatoid arthritis
 11. RIA
 12. Agglutination

Section-B

- II. Answer the following questions (4x12=48 Marks)
13. (a) What is Normal Flora? Write about the importance of it and its effect on human health.
(OR)
(b) Explain the antibacterial resistance of bacteria and its contributing effects with examples
14. (a) Explain in detail about the causative agent, pathogenesis, diagnosis and treatment of dengue fever
(OR)
(b) Write about the air borne disease caused by virus and its pathogenesis.
15. (a) Explain in detail about the different structural and functional roles of organs involved in the immune system.
(OR)
(b) Write in detail on the structure, types, properties and functions of antibodies
16. (a) Give a detail account on the differences in immediate and delayed type of Hypersensitivities.
(OR)
(b) What are monoclonal antibodies? Write about its production and its application.

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Section-A

- I. Answer any *eight* of the following questions (8x4=32 Marks)
1. Opportunistic pathogens
 2. Enterotoxin
 3. Tuberculosis
 4. Trophozoite Stage
 5. Rabies
 6. Morphology of HIV
 7. Primary lymphoid organs
 8. Basic structure of antibody
 9. Humoral immunity
 10. Classical complement pathway
 11. ELISA
 12. Hybridoma technology

Section-B

- II. Answer the following questions (4x12=48 Marks)
- 13.(a) Explain how pathogen interacts with the host system with the suitable examples.
(OR)
(b) Write about the contact disease caused by *Treponema palladium*.
- 14.(a) Explain the insect borne disease caused by *Plasmodium* species.
(OR)
(b) Explain in detail about any two air borne viral diseases
- 15.(a) Define Antigens? Explain different types of antigens
(OR)
(b) Explain different types of immunity with a neat flowchart
- 16.(a) What is Auto immunity? Explain different types of autoimmunity.
(OR)
(b) Explain different types of antigen-antibody reactions.
