

**Q.P. CODE: M102B030****Dr. NTR UNIVERSITY OF HEALTH SCIENCES, AP, VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION: JANUARY, 2025****SECOND M.B.B.S. EXAMINATION****MICROBIOLOGY PAPER-I****(Theory Questions)****Time: 2 Hour 40 Minutes****Max Marks: 80****Note: Answer all questions.****Draw a neat diagram wherever necessary**

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**SECTION-II (THEORY QUESTIONS - 80 MARKS)****WRITE ESSAY ON THE FOLLOWING:****2 X15 = 30**

1. A young female from a slum area presents with complaints of febrile episodes. She was pale and on physical examination her spleen was palpable. Her peripheral blood smear examination shows multiple, small ring forms and large, crescent shaped gametocytes in the RBC.

- What is your clinical diagnosis and what is the etiological agent? (Malaria)
- Describe the pathogenesis and clinical manifestations of the disease?
- Write about the laboratory diagnosis?
- Add a note on prevention?

2. Define Immune response. Describe in detail about the cell mediated immune response? Add a note on assessment of cell mediated immune response.

**WRITE SHORT NOTES ON THE FOLLOWING:****10x5=50**

- Antimicrobial resistance
- Mechanisms of bacterial pathogenesis

5. Laboratory diagnosis of fungal infections
6. Viral Gastroenteritis (partially obscured)
7. Campylobacter infections
8. Hepatitis C
9. Varicella zoster virus
10. Methicillin Resistant Staphylococcus Aureus
11. Laboratory diagnosis of leprosy
12. A medical intern comes to the infection control division with a history of needle stick injury 1 hour back. The source patient's sample was collected and tested for HIV, Hepatitis B and C infections. The intern is waiting in the reception of the infection control division to know about the test result of source sample. The test results show that source patient is reactive to HIV but negative for hepatitis B and C. How will you assure the intern and what prophylaxis measures you will advice?

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