

**Q.P. CODE: MB2019115**  
**KALOJI NARAYANA RAO UNIVERSITY OF**  
**HEALTH SCIENCES**  
**WARANGAL, TELANGANA STATE - 506 002**  
**MBBS SECOND YEAR DEGREE**  
**EXAMINATIONS: MARCH, 2023**  
**MICROBIOLOGY (NEW REGULATION)**  
**PAPER -I**

Time: 3 Hours

Max. Marks: 100

Note: Answer all questions

Give Diagrammatic representation wherever necessary

**Write an essay on the following:**

**2 X 15=30**

1. Enumerate the parasites causing Anaemia. Describe the life cycle, pathogenesis and laboratory diagnosis of Hook Worm infection.
2. Define sterilization and disinfection. Discuss Autoclave. Add a note on controls used in sterilization.

**Write a short note on the following:**

**8X5=40**

3. Laboratory diagnosis of Fungal Infections.
4. Classify Hypersensitivity reactions. Describe the mechanism, clinical features and laboratory diagnosis of

## Type 1 Hypersensitivity reaction.

5. Laboratory diagnosis and prevention of Cholera.
6. Widal Test.
7. A 45-year-old man presents with fever and jaundice since 2 months. HBsAg was detected in patient serum. What is the diagnosis? Describe the pathogenesis and laboratory diagnosis.
8. Define Agglutination Reactions. Describe the types and applications of Agglutination Reactions.
9. Life cycle and pathogenesis of Plasmodium falciparum.
10. Laboratory diagnosis of HIV infection. Add a note on NACO strategy for HIV diagnosis.

### **Write briefly on the following:**

**10 X 3 =30**

11. Enlist various modes of transmission of infection.
  12. Major Histocompatibility antigen.
  13. List viruses causing Diarrhoea.
  14. What are memory cells and their importance in Vaccination.
  15. Principles and types of ELISA,
  16. Name three Dimorphic Fungi.
  17. Name six opportunistic infections in HIV patients.
  18. Differences between Endotoxins and Exotoxins.
  19. Glutaraldehyde.
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20. List six mechanisms of Autoimmunity.

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