

**PAPER CODE: MB2019115****KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES****WARANGAL, TELANGANA STATE - 506002****MBBS SECOND YEAR DEGREE SUPPLEMENTARY EXAMINATIONS****AUGUST, 2023****MICROBIOLOGY (NEW REGULATION) PAPER-I****Time: 3 Hours****Max Marks: 100****Note: Answer all questions.****Give Diagrammatic representation wherever necessary.**

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**Write Essay on the following:****2 X15 =30**

1. A 30-year-old woman presents with complaints of swelling in the left lower limb and fissuring of the skin. She had been suffering from this for last six months. On examination, non-pitting edema that is not reversible on elevation of the affected limb, with thickening of the skin was noted. History reveals that it was gradual in onset. Complete blood picture shows eosinophilia. Peripheral blood picture shows Microfilaria.
    - a. What is the most probable diagnosis?
    - b. Write about the differential diagnosis. Describe the morphology of Microfilaria.
    - c. Discuss the laboratory diagnosis of the above condition.
    - d. Mention the preventive measures. (2+5+5+3)
  
  2. A 25-year-old male complains of the Protractile Diarrhoea. He was diagnosed as seropositive for HIV one month back. CD4 count was < 200 cells/cumm. Stool wetmount shows Oocysts of parasite.
    - a. Mention the probable cause of Diarrhoea in this patient.
    - b. What are the clinical stages of HIV infection?
    - c. Write about the lab diagnosis of HIV.
    - d. Write a note on progression of the disease. (2+5+5+3)
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**Write a short note on the following:**

**8X5=40**

3. Bacterial Endotoxin.
4. Routes of Transmission of Infection.
5. Structure and function of IgM.
6. Staphylococcal Food Poisoning.
7. Lab diagnosis of Enteric Fever.
8. Write about the mechanism of Autoimmunity.
9. Diarrhoeagenic Escherichia coli.
10. Write five situations where sample is rejected.

**Write briefly on the following:**

**10 X 3=30**

11. Mutation.
12. Name three antibiotics which inhibit the cell wall synthesis of Bacteria.
13. Name three differences in microscopic picture of *P. vivax* & *P. falciparum*.
14. Write three contributions of Louis Pasteur.
15. Write three live attenuated vaccines.
16. Name the Biotypes of O1 *Vibrio cholera*.
17. Name three advantages of rapid diagnostic tests.
18. Write about etiology of relapsing fever.
19. What is Graft Vs Host Reaction?
20. Draw a diagram of Giardia Cyst.

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