



**QP. CODE:M102B030**

**Dr YSR UNIVERSITY OF HEALTH SCIENCES :VIJAYAWADA- 520008**

**MBBS DEGREE EXAMINATION: DECEMBER, 2022**

**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 12 year old girl was brought to the OPD with history of intermittent fever for the last 4 days, there was history of loss of appetite and general weakness. On examination there was white coated tongue and palpable spleen. Blood culture was sent to the laboratory. Gram negative bacilli was seen on gram smear

- What is the likely causative agent (1)
- What serological test can be done after one week (1)
- Describe the pathogenesis of this organism (3)
- Write in detail about the laboratory diagnosis (4)
- What is Vi antigen how can it be detected (2)
- List the vaccine available and prevention (4)

2. List the causes of diarrhea/ dysentery caused by parasites. Describe the life cycle, clinical features pathogenesis and laboratory diagnosis and prevention





of infection with *Giardia lamblia*

(3+3+2+2+3+2)

**WRITE SHORT NOTES ON THE FOLLOWING:**

**10x5=50**

3. Passive immunity
4. Herpes zoster
5. Mechanism of drug resistance in bacteria
6. Diarrhoeagenic *Escherichia coli*
7. Opportunistic fungal infections in HIV
8. A 28 year old farmer from the village came to the OPD complaining of weakness and breathlessness whenever he did hard work. On examination he had pallor. Blood test for hemoglobin estimation was sent and his hemoglobin level was 5g/dl the stool examination showed ova of hookworm
  - a. What is the mode of infection with this parasite and infective stage (1)
  - b. Draw the life cycle of hookworm (2)
  - c. What are the complications of hookworm infection (2)
9. Dermatophytes
10. Different methods of sterilization
11. Moments of hand hygiene
12. Anaerobic culture methods

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