

# 2010 Scheme

Q.P. Code: 205001

Reg. No.: .....

## Second Professional MBBS Degree Supplementary Examinations August 2025

### Microbiology - Paper I

Time: 2 Hours

Total Marks: 40

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

#### Essay:

(10)

1. A young adult female presented with headache, fever and abdominal discomfort for the past 5 days. On examination, she was toxic with a temperature of 101<sup>0</sup> F, coated tongue and mild splenomegaly were also present.
  - a) What is the most probable diagnosis. Name the etiological agents
  - b) Describe the pathogenesis of this disease
  - c) Describe the laboratory diagnosis in detail
  - d) Add a note on the treatment and vaccines available for this condition (3+2+3+2)

#### Short essay:

(2x5=10)

2. Type 1 Hypersensitivity reaction
3. Laboratory diagnosis of pulmonary tuberculosis

#### Short notes:

(10x2=20)

4. Bacterial spore
5. Define enriched media with two example
6. Methicillin Resistant Staphylococcus Aureus (MRSA)
7. Malignant pustule
8. Name any TWO live vaccines
9. Plasmids
10. Name any TWO sporicidal disinfectants
11. Name TWO modes of transmission of infection with examples for each
12. Mention contributions of Robert Koch
13. Sterilization controls used in autoclave

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