

# **2010 Scheme**

**Q.P. Code: 205001**

**Reg. No.: .....**

## **Second Professional MBBS Degree Supplementary Examinations March 2024**

### **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 50 year old male presented to medicine OPD with evening rise of temperature, weight loss and productive cough for the past two months. Microscopic examination of the sputum revealed acid fast bacilli.
  - a) What is the most probable clinical diagnosis
  - b) Name the etiological agent
  - c) Discuss the pathogenesis of this disease
  - d) Describe the laboratory diagnosis including newer methods of diagnosis
  - e) Define multidrug resistance of this etiological agent

**(1+1+2+4+2)**

#### **Short essay:**

**(2x5=10)**

2. Laboratory diagnosis and prophylaxis of Diphtheria
3. Type I Hypersensitivity reactions.

#### **Short notes:**

**(10x2=20)**

4. Antigen presenting cells.
5. Disc diffusion method of antibiotic susceptibility testing
6. Transport media with TWO examples
7. Enumerate FOUR sporicidal disinfectants
8. Name TWO bacteria causing gas gangrene
9. Nongonococcal urethritis
10. Name TWO cell wall acting antibiotics
11. IgG (Immunoglobulin G)
12. Write TWO mechanisms of autoimmunity
13. Malignant pustule

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