

**Q.P. Code: 205001**

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

**Second Professional MBBS Degree Supplementary Examinations  
February 2021**

**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 35 years old female patient was admitted to the hospital with low grade fever, loss of weight and appetite and chronic cough with expectoration for past 5 months. Microscopic examination of sputum revealed long, slender and beaded acid fast bacilli.

- What is your provisional diagnosis
  - What is the probable etiological agent
  - Describe the pathogenesis of this condition
  - Discuss the laboratory diagnosis in detail
  - Mention briefly about the drug resistance that can occur in this causative agent
- (1+1+3+3+2)

**Short essay:**

**(2x5=10)**

2. Hot air oven

3. Name four tube agglutination tests. Describe in detail any one of them.

**Short notes:**

**(10x2=20)**

4. Transport media

5. List four oxidase positive organisms

6. Plasmid

7. Name four different bacteria causing urinary tract infection

8. Disc diffusion method of antibiotic sensitivity testing

9. List toxin mediated infections of staphylococcus aureus

10. DPT vaccine

11. Non-suppurative diseases of streptococcus pyogenes

12. Nagler reaction

13. Halophilic vibrios

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