

**Madhya Pradesh Medical Science University,  
Jabalpur  
MBBS Second Professional Examination 2019  
(Winter)  
Subject- Microbiology  
Paper- I**

Time: 3:00 Hours

Maximum Marks:50

Instructions:

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub-questions must be written strictly according to serial order of question paper.
- d) Do not write anything on the blank portion of question paper, if written anything such type of act will be considered as an attempt to resort to unfair means

**Q1. Long Answer questions 2 X 10 = 20**

- a. Discuss the Morphology & Pathogenicity of Mycobacterium tuberculosis. Add a note on Laboratory diagnosis of Pulmonary Tuberculosis
- b. Discuss the Morphology. Culture characteristics & laboratory diagnosis of Salmonella typhi.

**Q2. Short Answer Questions 4 X 5= 20**

- a. Enumerate various methods of gene transfer. Discuss any one of them in detail
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- b. Write down the toxins & enzymes of *Staphylococcus aureus*.
- c. Describe in brief the VDRL TEST
- d. Segregation of biomedical waste.

### **Q3. Very Short Answer Questions 1 X 10= 10**

- a. Name any two natural water bacteria.
- b. Name any two modes of transmission of Nosocomial pathogens.
- c. Enumerate any four causative bacteria of Meningitis.
- d. Enumerate the methods of demonstration of Capsule.
- e. Enumerate the nonsporting anaerobic gram negative bacilli
- f. Name the causative bacteria of food poisoning
- g. Name any two virulence factors of *Pneumococcus*
- h. Give examples of zoonotic disease.
- i. pigments produced by *pseudomonas* species.
- j. two chemicals used in Cold sterilization.

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