

**Madhya Pradesh Medical Science University,  
Jabalpur  
MBBS Second Professional Examination 2018  
(Winter)  
Subject- Microbiology  
Paper- I**

Time: 3 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 – 20 MARKS**

- a. Enumerate the methods of gene transfer and discuss the mechanisms of drug resistance in bacteria.
- b. Classify Rickettsiaceae. Write in detail about pathogenesis and lab diagnosis of typhus fever.

**Q2. Short Answer Questions – 20 MARKS**

- a. ~~Type IV hypersensitivity.~~
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- b. Hot air oven.
- c. Lepromin test.
- d. Monoclonal antibodies.

### **Q3. Very Short Answer Questions – 10 MARKS**

- a. Satellitism.
- b. Name four bacterial zoonotic infections.
- c. Oxidase test.
- d. Koch's postulates.
- e. Name Three live bacterial vaccines.
- f. Diagram of Immunoglobulin.
- g. Name Three Heterophile Antigen-Antibody reaction.
- h. Name the HACEK group of bacteria.
- i. What is Bile solubility test? Describe its principle.
- j. Name four bacteria causing food poisoning.

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