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**JEY 100011**

**Second Year MBBS Examination**  
**II MBBS Microbiology Paper 1 (New)**

Time: 3 hours

Max

Marks: 100

**Instructions:**

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

**Section 1**

1. **Structured Long Questions (LAQ) (Any 1 out of 2) (10)**
  - a. Define sterilization and disinfection. Classify various methods of sterilization. Describe mechanism of action, method of use, sterilization control and advantage and disadvantage of Autoclave in detail (2+2+6)

b. Describe hospital infection control measures.

**2. 2A.Applied Short notes (Any 2 out of 3) (12)**

a. Enumerate various zoonotic diseases.

Describe any one in detail,

b. Describe current guideline of Biomedical waste disposal.

c. Write about Laboratory diagnosis Dengue fever.

**3. 28.Short notes: (Any 3 out of 4) (18)**

a. Bacterial Growth Curve.

b. Describe Transport media.

c. Plasma Sterilization

d. Antimicrobial Susceptibility Testing (AST).

**4. 3.Answer only in 2-3 sentences: (Any 5 out of 6) (10)**

1. Hand hygiene

2. Function of capsule of Bacterial

3. Personal protective equipment (PPE)

4. What is Antibiotic stewardship?

5. Enrichment media.

## Section 2

### 1. **4.Structureed Long Question (LAQ) (Any 1 out of 2) (10)**

- Define delayed type of hypersensitivity reaction. Describe mechanism and pathology of it and write in detail about tuberculin test (1+3+3+3-10 Marks).
- Define Autoimmunity. Describe mechanisms of Autoimmunity & Autoimmune diseases. (1+5+4)

### 2. **5A.Applied Short notes: (Any 2 out of 3) (12)**

- Monoclonal Antibody
- Natural immunity.
- Structure and function of IgG

### 3. **58.Short notes (Any 3 out of 4) (18)**

- Bacterial Plasmid.
- Describe detection of virus growth in cell culture.
- Morphological Classification of Fungi
- Bacterial spore.

### 4. **6.Answer only in 2-3 sentences: (Any 5 out of 6) (10)**

- Give principle of precipitation reaction
- Define Epitope and Paratop
- Draw a neat labeled diagram of IgM.

- d. Enumerate four respiratory viruses
- e. Define Probiotics. Give one example
- f. Define Host-Parasite relationship.

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