Registration Number:

Date & session:

**ST JOSEPH’S UNIVERSITY, BENGALURU -27**

**M.Sc (MICROBIOLOGY) – III SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2023**

**(Examination conducted in November/December 2023)**

**MB 9221: MEDICAL MICROBIOLOGY**

**(For current batch students only)**

**Time: 2 hours Max Marks: 50**

**This question paper contains 1 printed page and 4 parts**

**I. Answer any Five of the following 5X3=15**

1. List the methods for biomedical waste treatment.

2. Name the organism that causes sore throat? How can it be identified?

3. What are catechols and hydroximates? Give an example for each.

4. Mention the factors affecting gut microbiota.

5. What is ESBL and NDM-1? Why is NDM-1 a potential danger?

6. Define MIC and MBC.

7. a) Name the dimorphic fungus you have studied. How is it identified? -2

 b) How is Zika virus transmitted? -1

1. **Answer any Two of the following 2X5=10**

8. Why is the Widal test performed? Explain the test.

9. What is NABL? Write a note on the benefits of accreditation.

10. Mention the properties of cells transformed by oncogenic viruses.

**III. Answer any Two of the following 2X10=20**

11. How is malaria transmitted? Give an account of its Life cycle?

12. List the predisposing factors, sources and consequences of HAI.

13. How is the Lyssa virus diagnosed? Explain its structure.

1. **Answer the following 1X5=5**

 14. A 23-year-old female, otherwise healthy, presented complaining of “multiple bumps” on

 her tongue and the inside of the lips. She had also complained of “dark marks” on her

 hands and feet, which itch at times. The RPR and FTA-ABS were positive.

1. Name the causative organism. What does it cause? 2
2. How will it be identified with respect to its morphology? 4
3. Mention the preventive and treatment measures. 4