

Date:8-03-2022

Registration number:

ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27

M.Sc MICROBIOLOGY - III SEMESTER

SEMESTER EXAMINATION: OCTOBER 2021

(Examination conducted in March 2022)

**MB 9218 – Medical Microbiology**

**Time- 2 ½ hrs Max Marks-70**

**This question paper contains 2 printed pages and 4 parts**

**I. Answer any Five of the following. 5 x 3 =15**

1. What are catechols and hydroxamates?

2. How is cholera red reaction performed?

3. What are bradyzoites, tachyzoites and sporozoites.

4. List the DENV non-structural proteins and their functions.

5. Name the mechanisms of drug resistance.

6. Why is E-test performed?

7. a) Define an opportunistic pathogen.

b) Name a nucleoside analogue and protease inhibitor for treating AIDS.

**II. Answer any Five of the following. 5x5=25**

8. Write a note on chemical safety in a microbiology lab.

9. How is bacillary dysentery diagnosed in the laboratory?

10. Explain the infections of *Tinea capitis* and Tinea *pedis.*

11. Add a note on the antigenic properties of the organism that causes Hepatitis B.

12. Explain the mechanism of action of Azole and Polyenes.

13. How can you prevent an infection with *Taenia saginata* and *Taenia solium*?

14. Describe TPHA test.

**III. Answer any Two of the following. 2x10=20**

15. Explain the virulence mechanism of the organism that causes pneumonia.

16. What is Aspergilloma? How is it identified and treated?

17. Give an account of internal quality control in a Microbiology Laboratory.

**IV. Answer the following. 1x10=10**

18.A rabid dog bites 2 different people at different places; person A on the calf and person B

on the neck.

1. Which person will get affected faster and why? Explain the underlying

phenomenon**. 5**

1. What prophylactic measures can be taken? -**5**

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