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

Registration Number:

Date & Session:21-12-2022 (9am)

**B.Sc (MICROBIOLOGY)– III SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2022**

**(Examination conducted in December 2022)**

 **MBOE3 - Microbial Diseases: Causes, Prevention, and Cure**

This question paper has **2** pages and **four** parts

 **Time: 2 hours Max Marks: 60**

**I. Choose the most appropriate option 5 x 1 = 5**

1. Microbiology is defined as

 a. the study of microorganisms b. the study of animals

 c. the study of plants c. the study of all living organisms

2. Who is known as the Father of Microbiology

 a. Antony Van Leeuwenhoek b. Robert Koch

 c. Alexander Fleming d. Louis Pasteur

3. The causative organism of Covid-19 is

 a. *Bacillus anthrax* b. *E. coli* c. SARS-CoV-2 d. *S. aureus*

4. Which of the following is NOT a source of infection

 a. Water b. Food c. Air d. Paper

5. What does CDC stands for

 a. Centers for Disease Control and Prevention b. Control for Disease Prevention

 c. Centers for Disease Control d. Company for Disease Control

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

6. Differentiate communicable and non-communicable diseases with an example of

 each.

7. List three contributions of Robert Koch.

8. What do you understand by the statement “microflora of the human body”?

9. Explain ecological niche and types of niches.

10. Sketch the general structure of a bacteria.

11. Define the following:

 a) Iatrogenic infection b)Localized infection c) Generalized infection

12. What is the significance of maintaining hygiene?

**III. Answer any Five of the following 5 x 6 = 30**

13. What are the different causative viruses of hepatitis? List the different types of hepatitis.

14. Define vaccine. Classify the different types of vaccines each with an example.

15. Define disinfection. What are the CDC guidelines for the proper use of disinfection and

 sterilization processes?

16. Classify diseases as endemic, epidemic, and pandemic.

17. Write a note on the transmission and progression of tuberculosis.

18. What do you understand by Zoonotic diseases? What can you do to protect yourself and

 your family from zoonotic diseases?

19. List three foodborne infections along with the causative organisms.

**IV. Answer any One of the following 1 x 10 = 10**

20. How do infections occur? What are the different sources of infection? Explain any two in

 detail.

21. Explain in detail the disease epidemiology, mode of transmission, prevention, and

 treatment of Malaria.