DATE: 25-6-19

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU-27.
M.Sc. MICROBIOLOGY - III SEMESTER
Special Supplementary Examination, JUNE 2019

MB 9216 - MEDICAL MICROBIOLOGY

Supplementary candidates only.
Attach the question paper

Time: 2 1/2hr **Max Marks: 70**

This question paper has 2 printed pages and 4 parts

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

1. What is double bagging and why is it done?
2. List the antigenic properties of the organism that causes gonorrhoeae and add a note for each property.
3. How is *Blastomyces dermatidis* infection diagnosed?
4. What is steatorrhoea?
5. Describe the structure and composition of HSV-I.
6. Classify antiviral agents based on their mode of action giving an example for each.
7. Define MBC and MIC. Name two methods for determining antibiotic sensitivity.

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

8. Describe the LAL assay.
9. What are the prophylactic measures for enteric fever?
10. Explain how a person suffering from pneumonia is diagnosed.
11. Explain the mechanism of viral oncogenesis.
12. Describe the mode of action of chloramphenicol.
13. Add a note on the antigenic properties of the organism that causes Cryptococcosis.
14. Illustrate the pathogenesis of toxoplasmosis.

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

15. Name the etiological agent that causes tetanus. Draw and explain the mechanism of its toxin.

16. Draw and explain the life cycle of the parasite that causes malaria.

17. How is Chikungunya transmitted? Mentions its signs and symptoms. Add a note on its prevention and treatment.

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

18. A study of 450 patients in a tertiary teaching hospital found that 120 people acquired infections.

    a. Describe the steps in the cycle of an infection, and indicate how this cycle might be broken.**5**
    b. Of what importance is the microbiology laboratory in controlling these infections? **5**