QP Code: P25C006

Reg. No : .....

Name : .....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

III SEMESTER (CBCSS - PG) DEGREE EXAMINATIONS, OCTOBER 2025

M. Sc. Microbiology

MBG3C09 : MEDICAL MICROBIOLOGY

2024 Admission Onwards

Time:3 Hours **Maximum Weightage:30**

Part A

*Short answer type questions: Answer **any four** questions. Weightage **2** for each question.*

(4x2 = 8 Weightage)

1. Define significant bacteriuria.
2. Describe the classification of *Streptococci.*
3. What are the common types of *Tinea* infections caused by dermatophytes.
4. Describe the general morphology of *Trypanosoma*.
5. Describe the prophylactic measures taken against leptospirosis.
6. Explain the characteristics of slow virus disease.
7. Differentiate between *Ancylostoma duodenale* and *Necator americanus* based on morphology and clinical significance.

Part B

*Short essay-type questions: Answer **any four** questions. Weightage **3** for each question.*

(4x3 = 12 Weightage)

8. Describe tetracyclines and their general mechanism of action.
9. Explain the diagnostic protocols used to identify *Helicobacter* infection.
10. Compare and comment on neural vaccines and non-neural vaccines in Rabies treatment.
11. Explain the pathogenesis, clinical features, lab diagnosis and treatment of histoplasmosis.
12. Analyze how antibiotic resistance develops against penicillins and discuss the implications for treatment.
13. Summarize the classification of fungi based on reproduction.

Turn Over

14. Evaluate the mechanisms involved in the pathogenesis of tuberculosis and assess the implications of these processes for treatment and disease control strategies.

Part C

*Essay-type questions: Answer **any two** questions. Weightage **5** for each question.*
(2x5 = 10 Weightage)

15. Briefly explain how *Entamoeba histolytica* infects the human host.
16. Briefly describe the different classes of antifungal and antiviral drugs used in the treatment of infectious diseases.
17. Explain about virulence factors and pathogenesis of *Bacillus anthracis.*
18. Discuss the origin, transmission, symptoms, prevention, and control measures of the *Nipah* virus. Highlight its public health implications and the challenges faced in managing outbreaks.

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