

# Rajiv Gandhi University of Health Sciences, Karnataka

## II Year B.Sc. (MLT) Degree Examination - 30-Oct-2025

Time: Three Hours

Max. Marks: 80

### Microbiology – II (RS3)

**Q.P. CODE: 3157**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

#### LONG ESSAY (Any Two)

**2 x 10 = 20 Marks**

1. Name the etiological agents of Enteric fever. Describe the pathogenicity and laboratory diagnosis of Typhoid fever
2. Describe the morphology, life cycle, pathogenicity and laboratory diagnosis of *Ascaris lumbricoides*
3. Classify *Spirochaetes*. Discuss the morphology and laboratory diagnosis of *Treponema pallidum*

#### SHORT ESSAY (Any Six)

**6 x 5 = 30 Marks**

4. Explain the laboratory diagnosis of *Wuchereria bancrofti*
5. Write a note on Enzymes and toxin produced by *Staphylococcus aureus*
6. Write a brief note on Kirby Bauer method of antibiotic susceptibility testing
7. Write the principle, procedure and interpretation of C-Reactive protein
8. Explain the laboratory diagnosis of gas gangrene
9. Explain the life cycle of hookworm
10. Write a note in prophylaxis for cysticercosis
11. Explain the process of bacteriological examination of water

#### SHORT ANSWERS (Any Ten)

**10 x 3 = 30 Marks**

12. Describe the morphology of *Trichomonas vaginalis*
13. Enumerate the bacteria causing meningitis
14. Write a note in Elek's gel precipitation test
15. Write the principle and interpretation of Mantoux test
16. Name any three organism causing hospital – acquired infections
17. Define significant bacteriuria
18. Write down the post streptococcal complications
19. Name any three spore forming bacteria
20. Write the principle, procedure and interpretation of Indole test
21. Write a note on larva migrans
22. Define a vector. Give two examples
23. Name three bacterial vaccines

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