

# Rajiv Gandhi University of Health Sciences, Karnataka

**I Year B.Sc. Allied Health Sciences Degree Examination – 14-May-2025**

**Time: Three Hours**

**Max. Marks: 80 Marks**

## **MICROBIOLOGY**

(RS3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology  
RS2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal  
Dialysis Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences  
Technology)

**Q.P. CODE: 3155**

**(QP contains two pages)**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

### **SHORT ESSAYS (Answer any Eight)**

**8 x 5 = 40 Marks**

1. Define sterilization. Explain autoclave in detail.
2. Kirby – Bauer method of antibiotic sensitivity test.
3. Laboratory diagnosis of Enteric fever.
4. Lesions caused by Streptococcus pyogenes.
5. Explain the prophylaxis of Rabies.
6. Dermatophytes.
7. Laboratory diagnosis of malaria.
8. Anaerobic culture methods.
9. Active immunity.
10. Define Hypersensitivity. Classify hypersensitivity with examples.

### **SHORT ANSWERS (Answer any Ten)**

**10 x 3 = 30 Marks**

11. Acid fast stain.
12. Factors influencing the growth of bacteria.
13. Enriched media.
14. Diarrhoeagenic E.coli.
15. Draw a neat diagram of Entamoeba histolytica trophozoite and name the parts
16. VDRL test.
17. Prophylaxis of Polio
18. Gonorrhoea.
19. Define nosocomial infection with examples.
20. IgG
21. Halophilic vibrio.
22. Opportunistic infections in HIV.

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## TO THE POINT ANSWERS (Answer any Five)

5 x 2 = 10 Marks

23. Give two contributions of Louis Pasteur.
24. Hanging drop
25. Name two DNA viruses.
26. Name two methods of cultivation of viruses.
27. What is a biological vector? Give two examples.
28. Name two bacteria causing meningitis.
29. What is dimorphic fungi? Give an example.

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