

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 13-May-2026

Time: Three Hours

Max. Marks: 100 Marks

MICROBIOLOGY

(RS-3 – B.Sc Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Neuro Sciences Technology, Anesthesia Technology, Operation Theatre Technology, Emergency and Trauma Care Technology)

(RS-4 – B.Sc Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology) Anesthesia and Operation Theatre Technology

Q.P. CODE: 3265

(QP contains two pages)

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAYS (Second Question Choice)

2 x 10 = 20 Marks

1. Define disinfection. Name the properties of an ideal disinfectant. Give detailed account of applications of commonly used disinfectants in hospital. Add a note on testing of disinfectants.
2. Name the malarial parasites infecting man. Describe the clinical manifestations of Plasmodium falciparum. Add a note on laboratory diagnosis of malaria.

OR

Describe the morphology and clinical manifestations caused by Treponema pallidum. Add a note on laboratory diagnosis of syphilis.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Draw a neat labeled diagram of compound microscope. Explain the parts and uses.
4. Gram staining technique.
5. Autoclave.
6. Coagulase test.
7. Non-suppurative complications of streptococcus pyogenes.
8. Morphology of E.histolytica.
9. Prophylaxis of poliomyelitis.
10. Laboratory diagnosis of viral infections.

OR

Infections caused by Candida albicans.

11. Coagulase negative staphylococcus.
12. Bacterial cell wall.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. Color coding of biomedical waste.
14. Draw neat labeled diagram of microfilaria.
15. Define vaccine. Name any two bacterial vaccines.

OR

Significant bacteriuria.

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16. Name any three parasites causing anaemia.
17. Define antibody. Name any three of immunoglobulins.
18. Name the sterilization controls used in hot air oven.
19. Name any three gram negative bacilli.
20. Name any three dermatophytes
OR
Edward Jenner.
21. Define biological vector. Give two examples.
22. Name any three Hepatitis Viruses.
