

Rajiv Gandhi University of Health Sciences, Karnataka

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

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. Describe clinical features and laboratory diagnosis of enteric fever. Add a note on prophylaxis.
2. Morphology, clinical features and laboratory diagnosis of HIV.

OR

Classify fungal infections based on morphology. Describe laboratory diagnosis of fungal infections.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Hot air oven.
4. Innate immunity.
5. Laboratory diagnosis of cholera.

OR

Describe laboratory diagnosis of urinary tract infections.

6. National Immunization Schedule.
7. Serological markers of HBV.
8. Biomedical waste management.
9. Describe different Anaerobic culture methods.
10. E. histolytica – clinical manifestations and laboratory diagnosis

OR

T. solium- clinical manifestations and laboratory diagnosis.

11. Laboratory diagnosis of Gonorrhea.
12. Describe IgM antibody with a neat labeled diagram.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. Name three methods of cultivation of viruses.
14. S. pneumonia: On Gram stain appears as
Catalase
Optochin
15. Flagella

OR

MRSA – expand the short form. List methods of prevention of its transmission.

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16. Name three Gaseous disinfectants.
17. Name the stain used in identify
 - a. Salmonella
 - b. C. neoformans in the CSF sample
 - c. M. leprae
18. Name three dimorphic fungi.
19. Define enriched media and give two examples.
20. Negative stain.
OR
Define precipitation and agglutination reaction.
21. Germ tube test.
22. Three modes of transmission of Hepatitis B virus.
