Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 17-Nov-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. Draw a neat labeled diagram of bacterial cell. Describe the cell wall.
2. Describe clinical features, laboratory diagnosis and prophylaxis of rabies.

   OR

   Classify Mycobacteria. Describe Laboratory diagnosis of Pulmonary tuberculosis. Add a note on BCG.

SHORT ESSAYS (Question No 5 & 10 choice) **10 x 5 = 50 Marks**

3. Louis Pasteur.
4. Innate Immunity.
5. National Immunization Schedule.

   OR

   Autoclave – Diagram, principle of working, uses and Quality Control.
6. Gram stain – principle and uses.
7. Biomedical waste management.
8. Different methods of cultivation of viruses.
9. P. vivax- clinical manifestations and laboratory diagnosis.
10. Diarrhoeagenic E. coli.

    OR

    El Tor Vibrio
11. Differences between amoebic and bacillary dysentery.
12. Describe laboratory diagnosis of Pseudomonas.

SHORT ANSWER (Question No 15 & 20 choice) **10 x 3 = 30 Marks**

13. Germ tube test – procedure and its use.
14. Morphology of Mucor.
15. Diagram of hook worm egg.

    OR

    MRSA – expand the short form. Mention two diseases caused by MRSA.

16. Coagulase test.
17. Diagram of Immunoglobulin (IgM).
18. VDRL – expand the short form. What type of test is it. Used for diagnosis of which infection.
19. Diagram of bacterial growth curve.
20. Define transport media and give two examples.
    OR
    Define enriched media and give two examples.
21. Define Agglutination reaction. Give two examples.
22. Define hospital acquired infection.

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