

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 01-Dec-2023

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 sterilization and disinfection. Describe Autoclave as a method of sterilization.
2. Describe clinical features and laboratory diagnosis of Dermatophytes.

OR

What is diarrhea? Describe laboratory diagnosis of cholera. Add a note on cholera vaccine.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Define antigen. Explain factors of antigenicity.
4. Bacterial cell wall.
5. National Immunization Schedule.

OR

Gaseous disinfectants.

6. Different methods of cultivation of viruses.
7. Biomedical waste management.
8. Anaerobic culture methods.
9. Clinical features and laboratory diagnosis of *W. bancrofti*.
10. VDRL test.

OR

Widal test.

11. Laboratory diagnosis of HIV.
12. Describe bacterial growth curve.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. Lactophenol cotton blue stain.
14. Morphology of *Cryptococcus* in Gram stain and India Ink stain.
15. Labelled diagram of egg of round worm.

OR

Non suppurative lesions of *Streptococcus pyogenes*.

16. Coagulase test.

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17. Diagram of Immunoglobulin (IgA).
18. Name three dimorphic fungi.
19. ZN stain.
20. Define transport media and give one example.
OR
Define precipitation and agglutination reaction.
21. Define inclusion bodies. Give two examples.
22. Modes of transmission of Hepatitis B virus.
