

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 29-Nov-2024

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. Describe hot air oven as a method of sterilization. Add a note on sterilization.
2. Define immunity. Classify immunity. Describe acquired immunity.

OR

Describe the structure of Immunoglobulin with neat labeled diagram. Mention the types and their functions.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Robert Koch.
4. Different methods of cultivation of viruses.
5. Laboratory diagnosis of candidiasis.
6. National Immunization Schedule.
7. Describe principle, performance and quality control of catalase test.
8. Biomedical waste management.
9. Describe different Anaerobic culture methods.
10. Clinical features and laboratory diagnosis of malaria.

OR

Clinical features and Laboratory diagnosis of hook worm infection.

11. Laboratory diagnosis of S. aureus.
12. Describe bacterial growth curve.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. CAMP test
14. LJ medium: Write the full name
It helps to culture
It is sterilized by
15. Morphology of HIV

OR

Draw a labelled diagram of bacterial flagella.

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16. Name three Gaseous disinfectants.
17. Name one each of: Trichophyton
Epidermophyton
Microsporum
18. Name three dimorphic fungi.
19. Define Enriched media and give two examples.
20. India Ink preparation.
OR
Stool wet mount.
21. Ziehl Neelsen stain – what is the principle of this stain.
22. Three modes of transmission of Hepatitis B virus.
