

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 07-Jun-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. List methods of moist sterilization. Describe in detail the functioning and uses of Autoclave.
2. Define immunity. Classify immunity. Explain the mechanisms of innate immunity.

OR

List viruses transmitted by blood and body fluids. Describe the laboratory diagnosis and methods of prevention of Hepatitis B infection.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Importance of Handwash in prevention of Health care associated infections.
4. List common disinfectants used in your hospital. Describe the uses of Hypochlorite solution.
5. IgG structure and function.

OR

Sources of infections to humans.

6. MRSA – Transmission and prevention.
7. Immunization schedule followed in India.
8. Define antigen. List various antigen-antibody reactions.
9. Lab diagnosis of Pulmonary tuberculosis.
10. Candidiasis.
11. Laboratory diagnosis of hook worm infection.
12. Draw a neat labelled diagram of the bacterial cell and label the parts.

OR

Cryptococcosis.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. Name three parasites causing infections of brain.
14. Name three bacteria causing infections of the urinary tract.
15. Three Phagocytic cells.

OR

Three differences between primary and secondary immune response.

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16. Name three viral infections transmitted through bite of insects.
17. List three infections caused by Aspergillus.
18. Name three Dermatophytes.
19. List three infections caused by Streptococcus pyogenes.
20. Name three live attenuated viral vaccines.
OR
Name three contributions of Louis Pasteur.
21. List three methods of bacterial culture.
22. Diarrhoeagenic E. coli.
