

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**I Year B.Sc. Allied Health Sciences Degree Examination – 21-Dec-2022**

**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 antigen. Define antibody. Define antigen antibody reactions. List various antigen antibody reactions.
2. List types of immunity and describe the differences between active and passive immunity.

**OR**

Classify Nosocomial infections. Describe in detail the standard precautions to be used to prevent these infections in health care settings.

**SHORT ESSAYS (Question No 5 & 10 choice)**

**10 x 5 = 50 Marks**

3. Laboratory diagnosis of Gonorrhoea.
4. Candida species – diseases caused and laboratory diagnosis.
5. Methods of cultivation of bacteria.
6. List infections caused by Staphylococcus aureus and write a note on MRSA.
7. Laboratory diagnosis of malaria.
8. Prophylaxis of rabies infection.
9. Importance of biomedical waste management in prevention of health care associated infections.
10. List bacteria that can cause pneumonia in humans and write briefly the laboratory diagnosis of pulmonary tuberculosis.

**OR**

List organisms that can cause Sexually transmitted diseases in humans and enumerate the tests used in the laboratory diagnosis of Syphilis.

11. Morphology and clinical features of A. lumbricoides.
12. Infections caused by Streptococcus pyogenes.

**SHORT ANSWER (Question No 15 & 20 choice)**

**10 x 3 = 30 Marks**

13. Sources of infections to humans.
14. Name three opportunistic infections.
15. Enumerate three tests and the samples to be sent for the diagnosis of typhoid fever.

**OR**

Name three tests used in the diagnosis of Dengue infections.

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16. El Tor vibrio.
17. Name three viral infections transmitted through blood and body fluids.
18. List the methods used in antibiotic susceptibility testing.
19. Name three chemical disinfectants used in the hospitals.
20. Name three stains used to stain bacteria.  
**OR**  
Name three selective media.
21. Name three fungi that affect the skin.
22. Name three live attenuated vaccines.

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