

Q.P. Code: 1782

# Rajiv Gandhi University of Health Sciences, Karnataka

## III Semester B. Sc Nursing Degree Examination - 20-Jun-2025

**Time: Three Hours****Max. Marks: 37****APPLIED MICROBIOLOGY – SECTION – A (RS-6)****Q.P. CODE: 1782****(QP Contains Two Pages)**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

**(Note: Both QP Codes 1782 and 1783 are to be answered within total duration of 3 hours)****LONG ESSAY****1 x 10 = 10 Marks**

1. a) Explain the purposes of staining  
b) Describe the different methods of staining

**SHORT ESSAYS****3 x 5 = 15 Marks**

2. Explain bacterial cell with its morphology
3. Describe the morphology and transmission of infection of Mycobacterium Tuberculosis.
4. List the types of hypersensitivity. Explain type I hypersensitivity reaction.

**SHORT ANSWERS****3 x 2 = 6 Marks**

5. Name four contributors to the field of microbiology
6. Enumerate four important applications of microbiology in nursing
7. Name two techniques of pure culture of bacteria.

**Multiple Choice Questions****6 x 1 = 6 Marks**

8. An example for a prokaryotic microorganism is
  - A. Fungi
  - B. Virus
  - C. Bacteria
  - D. Protozoa
9. A popular anaerobic culture medium is
  - A. Robertson's Cooked meat medium
  - B. Mac Conkey medium
  - C. Blood agar
  - D. Chocolate agar
10. A selective medium for isolation of Neisseria gonorrhoeae is
  - A. Mac Conkey's agar
  - B. Blood agar
  - C. Potassium tellurite blood agar
  - D. Thayer-Martin medium
11. Syphilis is caused by
  - A. Treponema carateum
  - B. Treponema pertenuae
  - C. Treponema pallidum
  - D. Treponema endemicum

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12. A coagulase negative staphylococci that is an opportunistic pathogen is
    - A. Staphylococcus epidermidis
    - B. Staphylococcus saprophyticus

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- C. Staphylococcus aureus
  - D. Staphylococcus Xylosus
13. The class of immunoglobulin that mediates reaginic hypersensitivity is
- A. IgG
  - B. IgE
  - C. IgA
  - D. IgM

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