

Rajiv Gandhi University of Health Sciences, Karnataka
III Semester B. Sc Nursing Degree Examination - 07-Jan-2026

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) Define Culture media and list its purposes
b) Explain classification of culture media with two examples for each

SHORT ESSAYS

3 x 5 = 15 Marks

2. Explain the bacterial growth curve
3. Describe various types of Streptococci with its morphology
4. Explain different types of immunoglobulins with its properties

SHORT ANSWERS

3 x 2 = 6 Marks

5. Mention two contributions of Louis Pasteur to microbiology
6. List four applications of microbiology in Nursing
7. Name four laboratory methods used in identification of bacterias

Multiple Choice Questions

6 x 1 = 6 Marks

8. The father of antiseptic surgery is
 - A. Paul Ehrlich
 - B. Joseph Lister
 - C. Robert Hooke
 - D. Ignaz Semmelweis
9. Treponema pallidum is a
 - A. Bacilli
 - B. Actinomycetes
 - C. Spirochetes
 - D. Mycoplasma
10. The bacteria that can grow in alkaline pH is
 - A. Vibrio cholerae
 - B. Lactobacilli
 - C. Helicobacter pylori
 - D. E.coli
11. The species of Clostridium that causes gas gangrene is
 - A. Clostridium Perfringens
 - B. Clostridium Botulinum
 - C. Clostridium Tetani
 - D. Clostridium Difficile
12. Leishmania donovani causes

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- A. Malaria
- B. Sleeping sickness
- C. Chaga's disease
- D. Kala-azar

13. The test used to detect Hepatitis B antigens and antibodies is
- A. Radial immuno-diffusion
 - B. Counter immuno-electrophoresis
 - C. Immuno-electrophoresis
 - D. Slide Agglutination test
