

**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

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12. *Leishmania donovani* causes
- 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

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