

Q.P. Code: 1782

Rajiv Gandhi University of Health Sciences, Karnataka

III Semester B. Sc Nursing Degree Examination - 20-Dec-2024

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 bacterial spore with its neat labelled diagram
b) Describe the methods of Gram staining and differentiation of gram staining

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

2. Explain the bacterial mode of nutrition
3. Outline the laboratory diagnosis of Mycobacterium Tuberculosis
4. Describe BCG vaccine and its maintenance through cold chain

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

5. Define the term microbiology.
6. Mention the contributions of Robert Koch in the field of microbiology
7. List the use of lactophenol cotton blue stain.

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

8. The Father of Chemotherapy is
 - A. Sir Ronald Ross
 - B. Joseph Lister
 - C. Charles Nicolle
 - D. Paul Ehrlich
9. An example of a Lophotrichous bacteria is
 - A. Vibrio cholerae
 - B. Spirilla
 - C. Salmonella typhi
 - D. Klebsiella sp
10. Bacteria that can synthesize their organic compounds on their own are called as
 - A. Chemotrophs
 - B. Autotrophs
 - C. Phototrophs
 - D. Heterotrophs
11. The strain of bacteria which is penicillin resistant and known to causes outbreaks of hospital infection is
 - A. Streptococci viridans
 - B. Methicillin Resistant Staphylococcal Aureus
 - C. Staphylococcal epidermidis
 - D. Streptococci agalactiae

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12. A 'malignant pustule' is a characteristic feature in

- A. Pulmonary Anthrax
- B. Cutaneous Anthrax
- C. Intestinal Anthrax
- D. Gustatory Anthrax

13. Antibody mediated immunity is called as

- A. Humoral immunity
- B. Herd immunity
- C. Passive immunity
- D. Cell mediated immunity

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