

Q.P. Code: 1782

Rajiv Gandhi University of Health Sciences, Karnataka
III Semester B. Sc Nursing Degree Examination - 02-Jul-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) Explain microorganism with its nutritional classification
b) Discuss the factors influencing bacterial growth

SHORT ESSAYS

3 x 5 = 15 Marks

2. Illustrate with example the types of staining
3. Describe any two vector borne disease with its source and transmission of infection
4. Explain the characteristics and types of antigen antibody reactions

SHORT ANSWERS

3 x 2 = 6 Marks

5. List two contributions of Joseph Lister
6. List the relevance of microbiology to nursing
7. Distinguish features of aerobic and anaerobic microorganisms

Multiple Choice Questions

6 x 1 = 6 Marks

8. Hanging drop method for motility study was first introduced by
 - A. Robert Koch
 - B. Louis Pasteur
 - C. Edward Jenner
 - D. Antonie van Leeuwenhoek
9. The bacteria that require high levels of carbon dioxide for their growth are called
 - A. Microaerophilic bacteria
 - B. Aerobic bacteria
 - C. Anaerobic bacteria
 - D. Capnophilic bacteria
10. Loeffler's serum slope is used for culture of
 - A. Neisseria
 - B. Corynebacterium diphtheriae
 - C. Salmonellae
 - D. Shigellae
11. The test used for diagnosis of non-suppurative complications of Streptococcus pyogenes infections
 - A. Bile solubility test
 - B. Optochin sensitivity test
 - C. ASO test
 - D. Subcutaneous test
12. The 'Medusa head' appearance in Nutrient agar media is a characteristic feature
 - A. Clostridium perfringens
 - B. Mycoplasma hominis

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- C. *Bacillus anthracis*
- D. *Ureaplasma urealyticum*

13. ELISA is used to detect
- A. HIV antigen in serum
 - B. HIV antibodies in serum
 - C. Rotavirus in urine
 - D. Rotavirus in gastric juice

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III Semester B. Sc Nursing Degree Examination - 06-Jul-2026

Time: Three Hours

Max. Marks: 75

ADULT HEALTH NURSING I (RS-6)

Q.P. CODE: 1784

(QP Contains Two Pages)

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAY

2 x 15 = 30 Marks

1. Mr. R, aged 60 years is admitted for cardiac catheterization in cardiac ward
 - a) Define Cardiac Catheterization.
 - b) List any 5 purposes of Cardiac Catheterization.
 - c) Draw a nursing care plan for a patient with Cardiac Catheterization based on three prioritized nursing diagnosis.
2. Mr. X, aged 65-years male is admitted to the surgical ward with diagnosis of Hernia.
 - a) Define Hernia.
 - b) List down the types of Hernia & discuss clinical features of Hernia.
 - c) Explain Surgical & Nursing management of patient undergoing surgery.

SHORT ESSAYS

5 x 5 = 25 Marks

3. Write a brief note on Prevention of accidents and hazards in OT.
4. Enlist the causes and clinical manifestations of atelectasis
5. Explain the management of patient with chronic Bronchitis.
6. Describe the medical and nursing management of Diabetes insipidus
7. Discuss the post operative nursing management of a client under gone amputation.

SHORT ANSWERS

4 x 2 = 8 Marks

8. Define Hyponatremia
9. Define Tetanus
10. List any four signs of Hemophilia
11. Define Eczema

Multiple Choice Questions

12 x 1 = 12 Marks

12. Calf pain elicited on dorsi flexion of ankle suggesting thrombosis.
 - A. Chvostek sign
 - B. Claybrook sign
 - C. Homans sign
 - D. Leitters Sign
13. The position used for renal surgery is
 - A. Lithotomy
 - B. Sims
 - C. Supine
 - D. Trendelenburg
14. Which among the following is **NOT** an Opioids.
 - A. Morphine Sulphate
 - B. Fentanyl
 - C. Levorphanol
 - D. Ibruprofen
15. Which of the following chest injury can cause Lung Collapse
 - A. Tension Pneumothorax

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- B. Open Pneumothorax
 - C. Closed Pneumothorax
 - D. Flail Chest
16. In which of the following condition a percussion note of hyper resonance is usually heard
- A. Chronic obstructive pulmonary disease
 - B. Lung tumour
 - C. Pneumonia
 - D. Pleural effusion
17. Endogenous synthesis of vitamin D occurs in
- A. Epidermis
 - B. Dermis
 - C. Subcutaneous Tissue
 - D. Apocrine Gland
18. The test used to identify the Average 3-month Blood sugar Control is
- A. HbA_{1c}
 - B. FBS
 - C. GTT
 - D. PPBS
19. Which among the following is a bacterial infection of skin
- A. Impetigo
 - B. Candidiasis
 - C. Tinea Unguim
 - D. Verruca Vulgaris
20. The compression to ventilation ratio in adult with one rescuer is
- A. 30:2
 - B. 15:2
 - C. 15:1
 - D. 30:1
21. A drug commonly used to treat amoebic dysentery is
- A. Albendazole
 - B. Metronidazole
 - C. Pantoprazole
 - D. Amphotericin
22. Which of the following is an abnormal assessment finding of respiratory system
- A. Symmetric chest movements on both side
 - B. Inspiratory chest expansion of 1 inch
 - C. Resonance on percussion over lung field
 - D. Presence of adventitious breath sound
23. The type of anaemia seen in patients who had undergone gastric resection is
- A. Megaloblasticanemia
 - B. Hemolytic anemia
 - C. Aplastic anemia
 - D. Iron deficiency anemia

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III Semester B. Sc Nursing Degree Examination - 06-Jul-2026

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Max. Marks: 75

ADULT HEALTH NURSING I (RS-6)

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