

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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III Semester B. Sc Nursing Degree Examination - 01-Jul-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) Describe the classification and types of microbes
b) Explain the morphology and growth of microbes

SHORT ESSAYS

3 x 5 = 15 Marks

2. Explain the types of culture and media preparation
3. Describe the virulence factors of streptococcus pyogenes with laboratory diagnosis
4. Explain agglutination and types of agglutination reaction

SHORT ANSWERS

3 x 2 = 6 Marks

5. List two branches of microbiology
6. Enumerate the limitations of Koch's Postulates
7. Give two examples for amphitrichous bacteria

Multiple Choice Questions

6 x 1 = 6 Marks

8. Cholera Vibrios was discovered by
 - A. Robert Koch
 - B. Paul Ehrlich
 - C. Max Theiler
 - D. Joseph Lister
9. Bacteria that die on exposure to oxygen are called
 - A. Obligate anaerobes
 - B. Obligate aerobes
 - C. Microaerophilic bacteria
 - D. Facultative anaerobes
10. A culture medium that distinguishes one micro-organism from another is
 - A. Enriched medium
 - B. Complex medium
 - C. Chemically defined medium
 - D. Mac Conkey's medium
11. Cutaneous infections caused by Staphylococcus is
 - A. Pneumonitis
 - B. Empyema
 - C. Impetigo
 - D. Pyemia

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12. The most commonly isolated enterococcus from human sources is
 - A. Enterococcus avium
 - B. Enterococcus faecalis
 - C. Enterococcus Termitis
 - D. Enterococcus resistant to Vancomycin
13. Pulse polio immunization is a method of attaining
 - A. Local Immunity
 - B. Natural active immunity
 - C. Herd immunity
 - D. Humoral immunity

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

Time: Three Hours

Max. Marks: 38

INFECTION CONTROL AND SAFETY – SECTION – B (RS-6)

Q.P. CODE: 1783

(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 sources of infection
b) Describe responsibilities of nurse in prevention of intravenous (IV) complications

SHORT ESSAYS

3 x 5 = 15 Marks

2. Describe the Laundry Management Process in the hospital
3. Explain the role of nurse in times of disaster
4. Enumerate the Post exposure prophylaxis for HIV infection among health care workers.

SHORT ANSWERS

3 x 2 = 6 Marks

5. List the Surveillance criteria for surgical site infection (SSI)
6. Define the term "surgical hand scrub"
7. Enumerate the purposes of labelling specimens

Multiple Choice Questions

7 x 1 = 7 Marks

8. The primary purpose of an infection control manual in healthcare facilities is
 - A. To serve as a guideline for proper patient care
 - B. To outline the hospital's financial policies
 - C. To provide information on staff scheduling
 - D. To establish protocols and procedures for preventing and managing infections
9. Steam sterilization at 100° C for 20 minutes on three successive days is known as
 - A. Tyndallisation
 - B. Inspissation
 - C. Pasteurization
 - D. Vaccination
10. The Spaulding classification system for medical devices is
 - A. Based on their manufacturing materials.
 - B. According to their intended use in surgical procedures.
 - C. Based on device usage and risk of infection.
 - D. Based on their physical dimensions and size.
11. The antibiotic **NOT** clinically useful for pseudomonas aeruginosa infection is
 - A. Aminoglycosides
 - B. Ceftazidime
 - C. Piperacillin
 - D. Trimethoprim-sulfamethoxazole

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12. A common problem when antibiotics are misused is
- A. Decreased antibiotic resistance
 - B. Improved patient outcomes
 - C. Increased risk of adverse reactions
 - D. Reduction in healthcare costs
13. 13. International Patient Safety Goals was developed by the Joint Commission International (JCI) in the year
- A. 1992
 - B. 1996
 - C. 2000
 - D. 2006
14. Defined Daily Dosage represents
- A. Maximum recommended dose
 - B. Average maintenance dose for a specific drug
 - C. Minimum effective dose
 - D. The dose suitable for pediatric patients only

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III Semester B. Sc Nursing Degree Examination - 03-Jul-2024

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. X, aged 50 years, male is admitted to the medical ward with the diagnosis of acute Pancreatitis.
 - a) Define Pancreatitis.
 - b) Explain the Pathophysiology and complications of acute Pancreatitis.
 - c) Write the nursing care plan for Mr. X with three prioritized Nursing diagnoses .
2. Mr. R, aged 55 years, male is admitted to the medical ward with the diagnosis of Hypertension.
 - a) Define Hypertension
 - b) Explain the types and Pathophysiology of Hypertension.
 - c) Discuss the life style modifications to be taken by Mr. R.

SHORT ESSAYS

5 x 5 = 25 Marks

3. Enumerate the steps used in Surgical Scrubbing in Operating Theatre
4. Enlist the types and discuss the clinical Manifestations of Emphysema
5. Enumerate the causes and list the manifestations of Acute Respiratory Distress Syndrome.
6. Explain the Micro and Macro vascular complications of Diabetic Mellitus
7. Explain the risk factors and complication of Osteoporosis

SHORT ANSWERS

4 x 2 = 8 Marks

8. Enlist the stages of Wound healing
9. List four types of Shock
10. Define Thalassemia
11. Define Psoriasis

Multiple Choice Questions

12 x 1 = 12 Marks

12. Which among the following is NOT a factor for delayed wound healing?
 - A. Smoking
 - B. Malnutrition
 - C. Low immunity
 - D. Adequate tissue perfusion
13. Which among the following is a suitable example of inhaled gaseous anesthesia agent?
 - A. Isoflurane
 - B. Methoxyflurine
 - C. Nitrous oxide
 - D. Halothane
14. The type of Pain felt in a part of body that is far from the site of stimulus causing Pain is
 - A. Visceral pain
 - B. Cutaneous pain
 - C. Referred pain
 - D. Somatic pain

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15. The rationale behind the advice to drink 2 to 3 liters of fluid per day during an acute episode of upper respiratory tract infection is to
 - A. Increase urine output
 - B. Liquefy respiratory secretions
 - C. Correct electrolyte imbalance
 - D. Increase cardiac output
16. Maximum volume of air exhaled after a Maximum inspiration is termed as
 - A. Vital Capacity
 - B. Forced Vital Capacity
 - C. Forced Expiratory Volume
 - D. Tidal Volume
17. An intervention for preventing Deep Vein Thrombosis is
 - A. Providing complete bed rest
 - B. Application of cold
 - C. Application of pneumatic compression device
 - D. Application of heat
18. What is the recommended depth for chest compressions during adult CPR?
 - A. At least 1 inch (2.5 centimeters)
 - B. At least 2 inches (5 centimeters)
 - C. At least 0.5 inches (1.5 centimeters)
 - D. At least 3 inches (7.5 centimeters)
19. Which among the following is not a type of Skin Cancer
 - A. Basal cell Carcinoma
 - B. Squamous cell Carcinoma
 - C. Multiple Myeloma
 - D. Malignant Melanoma
20. Reconstruction of Joint is called as
 - A. Arthrodesis
 - B. Arthroplasty
 - C. Disarticulation
 - D. Arthrocentesis
21. Diagnostic test for Malaria is
 - A. Peripheral smear
 - B. Widal test
 - C. Mantoux test
 - D. Western blot
22. An autoimmune disorder of the Skin characterized by eruption of blister is
 - A. Candidiasis
 - B. Pemphigus Vulgaris
 - C. Lichen planes
 - D. Psoriasis
23. The inflammatory condition caused by reactivation of chicken pox virus is
 - A. Herpes zoster infection
 - B. Herpes simplex infection
 - C. Systemic lupus erythematosus
 - D. Cytomegalovirus infection

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