

April-25-3--5822

B. Sc. Nursing Sem - III Examination

April -2025

Applied Microbiology and Infection Control including Safety

Total Marks : 75

Time : 3 Hours

- Instructions : 1. The number to the right indicated full marks.
2. Draw diagram wherever necessary.
3. Answer each section in the respective answer sheet only.
4. Answer written in the inappropriate sectional answer book will not be assessed in any case.

SECTION - I

1. Multiple Choice Questions : 06
- The bacterial structure involved in motility is
a. Ribosome b. Pili c. Mesosome d. Flagella
 - The most common method to transfer drug resistant gene is
a. Transformation b. Transduction
c. Lysogenic conversion d. Conjugation
 - Which of the following vaccine is killed vaccine ?
a. Mumps vaccine b. Measles vaccine
c. Rubella vaccine d. IPV
 - Aerosol transmission occurs in all except ;
a. Mycobacterium tuberculosis b. Corynebacterium diphtheria
c. Measles virus d. varicella
 - All are agglutination reaction except
a. VDRL test b. Standard agglutination test
c. Widal test d. Paul Bunnell test
 - Naegler's reaction is positive for
a. Clostridium perfringens b. Clostridium tetani
c. Clostridium botulinum d. Clostridium difficile
2. Essay type question : 10
Define and classify sterilization. Explain moist methods of sterilization.
3. Short Notes (Any Three) 15
- Types of immunity
 - Explain Gram staining method
 - Principles of Microbiology
 - Strategies of Antibiotic stewardship program
 - Hospital acquired infections
4. Very Short Answer 06
- MRSA
 - Prophylaxis of diphtheria
 - Gas gangrene
- nechilen
Resistemic
Streptococcus
Aerobic*

SECTION-II

5. Multiple Choice Questions (Attempt All)

07

1. In first week of illness, enteric fever is diagnosed by
 - a. Widal test
 - b. Blood culture
 - c. Stool culture
 - d. Urine culture
2. Lye disease is caused by
 - a. Leptospira interrogans
 - b. Borrelia recurrentis
 - c. Borrelia vincenti
 - d. borrelia burgdorferi
3. While examining Covid-19, all of the following PPE are required except
 - a. N95 mask
 - b. Gown
 - c. Goggles
 - d. Gloves
4. Kyasanur Forest disease is transmitted by
 - a. Aedes aegypti
 - b. Culex
 - c. Tick
 - d. Anopheles
5. Surgical antimicrobial prophylaxis (SAP) must be provided for all type of surgeries, except
 - a. Clean wound
 - b. Clean contaminate wound
 - c. Contaminates wound
 - d. Dirty Wound
6. Which of the following is used for disinfection of blood spillage area ?
 - a. Phenol
 - b. Hypochlorite
 - c. Lysol
 - d. Formaldehyde
7. Microbiological waste should be segregated in which colour bag ?
 - a. Yello
 - b. Red
 - c. Blue
 - d. Black

6. Essay Type Question :

Describe the structure & functions of the bacterial cell with a neat diagram.

10

7. Short Notes : Any Three

1. Standard precautions
2. Weil's disease
3. Life Cycle of Malaria
4. Post- exposure prophylaxis for HIV
5. Food and Water borne infections

15

8. Very Short Answer :

1. Incineration
2. Ventilator associated pneumonia
3. Black Water Fever

06