

81

May – 2024-05-7011
B.Sc. Nursing Semester III Examination
May - 2024

Applied Microbiology & Infection Control Including Safety

Max. Marks: 75

Time: 3 Hours

Instructions:

1. The Number to the right indicates full marks
2. Draw diagram wherever necessary
3. Answer each section in the respective answer sheet only
4. Answer written in the in appropriate sectional answer book will not be assessed in any case.

Section -- A (37 Marks)

Q.1 Objective type questions.

(6x1=6)

1. The bacterial structure involved in motility is
 - a) Ribosomes
 - b) Pili
 - c) Mesosome
 - d) Flagella
2. Which of the following staining techniques is used to identify acid fast bacilli
 - a) Atrial contraction
 - b) Atrial relaxation
 - c) Ventricular contraction
 - d) Ventricular relaxation
3. If the infection occurs at much higher rate than usual in particular geographic area, it is known as
 - a) Epidemic
 - b) Pandemic
 - c) Outbreak
 - d) Sporadic
4. The immunity develops after the vaccination is an example for.
 - a) Natural Active Immunity
 - b) Artificial Active immunity
 - c) Natural passive immunity
 - d) Artificial passive immunity
5. Dengue is transmitted by _____ ?
 - a) Aedes aegypti
 - b) Culex
 - c) Tick
 - d) Guinea worm
6. Dracunculus medinensis is also known as
 - a) Beef tapeworm
 - b) Pork tapeworm
 - c) Hookworm
 - d) Guinea worm

Q.2 Essay type question

(1x10=10)

- A. Describe morphology, culture characteristics, pathogenesis and laboratory diagnosis of salmonella

Q.3 Write short notes. (Any three)

(5x3=15)

1. Candidiasis
2. ELISA Test
3. Polio vaccines
4. Immunoglobulin
5. Bacterial growth curve

Q.4 Write very short answer.

(3x2=6)

- A. Conjugation
- B. Eradication
- C. Immunology

Section – B (38 Marks)

Q.5 Multiple choice questions.

(7x1=7)

- In the following which is most commonly used method of sterilization
 - Hot air oven
 - Pasteurization
 - Autoclaving
 - Boiling
- In following which is a central nervous system associate infection
 - Pneumonia
 - Meningitis
 - Endocarditis
 - Amoebiasis
- Which of the following types of waste is segregated in yellow colored bin/Container
 - Anatomical human waste
 - Contaminated blades and scalpels
 - Waste urinary catheters and IV set
 - Broken and contaminated ampoules (Except those contaminated with cytotoxic wastes)
- Which of the following media is the most ideal for antibiotic sensitivity test for bacterial strains
 - Blood Agar
 - Nutrient agar
 - Mueller Hinton agar
 - Deoxycholate citrate agar
- In following which is an example of isotonic solution
 - Normal Saline
 - 10% Dextrose in water
 - 0.45% saline
 - 5% Dextrose in normal saline
- What is the meaning of term 'Shine' include in 5s safety system
 - Tidiness
 - Cleanliness
 - Orderliness
 - Self discipline
- Respiratory infections are mainly transmitted by which mode
 - Droplet infection
 - Inoculation into skin
 - Trans placental
 - Vehicle borne

Q.6 Long answer question. (Any one)

(1x10=10)

- A. Define Disaster. Describe in details the types of disaster and role of nurse in disaster Management

Q.7 Write short notes. (Attempt any three)

(5x3=15)

- Preventive measure for needle stick injuries
- Risk and side effects of restraints
- Stoke disc diffusion methods
- Physical method of disinfection
- Nosocomial infections

Q.8 Write very short answer.

(3x2=6)

- Ventilator
- MDROs
- flaming

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