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Third Semester B.Sc. Nursing Examination, (Phase - III) Winter - 2023
**APPLIED MICROBIOLOGY AND INFECTION CONTROL
INCLUDING SAFETY**

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 62

SECTION - B & SECTION-C

- Instructions :**
- 1) Use **black** ball point pen only
 - 2) **Do not** write anything on the **blank portion of the question paper.** If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All questions are compulsory.**
 - 4) The number to the right indicates **full marks.**
 - 5) Draw diagrams **wherever necessary.**
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answerbook for section B & C.

SECTION-B

(Applied Microbiology)

2. **Essay** **[1×10=10]**
Define Immunity, describe in detail the different level of immunity among the living Organisms. Write down the types & Classification of Immunity in details.
3. **Short Notes:** **[3×5=15]**
 - a) Define Hypersensitivity and describe the anaphylactic type.
 - b) Describe in brief about Widal Test.
 - c) Write down the Nursing intervention in vector-borne diseases control.
4. **Very Short Notes:** **[3×2=6]**
 - a) Details about Yeast cell
 - b) Describe Bacterial Growth Curve
 - c) Describe Classification of specimen

SECTION-C**(Infection Control Including Safety)****5. Essay** **[1×10=10]**

Define Sterilization and Disinfection. Write 4 characteristics of an ideal disinfectant. Write a note on the Autoclave as a method of sterilization.

6. Short Notes: **[3×5=15]**

- a) Define Nosocomial Infection. Describe various nosocomial infections with measures of prevention of infection.
- b) Describe Universal safety Precautions.
- c) What is Antibiotic Stewardship? Explain its importance in health care settings.

7. Very Short Notes: **[3×2=6]**

- a) Write down the Principles of Specimen Collection.
- b) Describe briefly about 55 safety protocol?
- c) Enlist the steps of Hand Hygiene.



Third Semester B.Sc. Nursing Examination, Summer - 2024
Phase - II

APPLIED MICROBIOLOGY AND INFECTION CONTROL
INCLUDING SAFETY

Total Duration : Section A+B+C = 3 Hours

Section B&C Marks : 62

SECTION - B & SECTION - C

- Instructions :**
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 - 7) Use a common answer book for section B & C.

SECTION - "B"

(Applied Microbiology)

2. Essay (any 1 out of 2) : [1 × 10 = 10]
- a) Define Culture media. Classify culture media with an example. State the importance of culture media to nurse.
 - b) Describe Life cycle malaria parasite and Explain about pathogenicity of malarial parasite.
3. Short Notes (any 3 out of 4) : [3 × 5 = 15]
- a) Define biomedical waste and explain the segregation of waste.
 - b) Define Sterilization and Disinfection and explain the methods of Sterilization.
 - c) Describe the general characteristics of Bacteria.
 - d) Explain different types of care bundles used in ICU.

4. Very Short Notes (any 3 out of 4) : [3 × 2 = 6]

- a) Explain the steps of hand washing.
- b) Enlist the International Patient Safety Goals.
- c) Define the term of "Infection" and "Nosocomial infections".
- d) Explain the phases of bacterial growth curve.

SECTION - "C"

(Infection Control Including Safety)

5. Essay (any 1 out of 2) : [1 × 10 = 10]

- a) Define the term Antibiotic Stewardship. State the Importance of Antibiotic Stewardship. Role of a nurse in prevention of Methicillin-resistant Staphylococcus aureus (MRSA) infection.
- b) Define Personal Protective Equipment (PPE). Explain the importance and types of PPE. Role of a nurse in transmission-based precautions.

6. Short Notes (any 3 out of 4) : [3 × 5 = 15]

- a) Role of nurse in infection control in ICU.
- b) Differentiate between medical asepsis and surgical asepsis.
- c) Define biological spillage and explain biological spillage management.
- d) Define Emergency codes. Explain types of Emergency codes.

7. Very Short Notes (any 3 out of 4) : [3 × 2 = 6]

- a) Prevention of communication error in Hospital.
- b) Enlist the Principles of specimen collection.
- c) Explain standard precautions for patient care.
- d) Enlist the Members of infection control team in Hospital.

