

Reg. No: .....

**Third Semester B.Sc Nursing Degree Regular/Supplementary  
Examinations May 2024  
Paper I – Applied Microbiology and Infection Control including Safety**

Time: 3 Hrs

Total Marks: 75

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers
- Indicate the question number correctly for the answer in the margin space • Answer all parts of a single question together
- Leave sufficient space between answers • Draw table/diagrams/flow charts wherever necessary
- Write section A and section B in separate answer books (32 Pages). Do not mix up questions from section A and section B.

**Section A – Applied Microbiology**

Q.P. CODE: 321010

Max. Marks: 37

**Multiple Choice Questions**

(6x1=6)

(Choose the most appropriate answer from the options given)

1. Inclusion bodies seen in rabies is
  - a) Cowdry type A
  - b) Molluscum body
  - c) Negri body
  - d) Guarnieri body
2. Example for enriched media is
  - a) Blood agar
  - b) Lowenstein Jensen medium
  - c) Selenite F broth
  - d) Peptone water
3. All of the following are blood parasites EXCEPT
  - a) Plasmodium
  - b) Leishmania
  - c) Toxoplasma
  - d) Ascaris
4. Which of the following is the most suitable medium for fungal growth.
  - a) MacConkey's agar
  - b) Sabouraud's dextrose agar
  - c) Deoxycholate citrate agar
  - d) Muller Hinton agar
5. Widal test is an example for
  - a) Agglutination test
  - b) Flocculation test
  - c) Complement fixation test
  - d) Immunofluorescence test
6. What is the mode of transmission of dengue fever.
  - a) Ingestion of contaminated food and water
  - b) Bite of infected Aedes aegypti mosquito
  - c) Inhalation of dengue virus spores
  - d) Bite of animals like dog

**Essay**

(1x10=10)

7. Discuss the morphology, modes of transmission, laboratory diagnosis and prophylaxis of Hepatitis B virus. (2+2+3+3)

**Short Notes**

(3x5=15)

8. Discuss anaphylaxis.
9. Discuss the laboratory diagnosis of Staphylococcus aureus.
10. Discuss bacterial flagella.

**Difference between the following**

(3x2=6)

11. Bacteria and Virus.
12. Plasmodium falciparum and Plasmodium vivax.
13. Innate immunity and Acquired immunity.

(PTO)

**Section B – Infection Control Including Safety**

**Q.P. CODE: 322010**

**Max. Marks: 38**

**Multiple Choice Questions**

**(7x1=7)**

**(choose the most appropriate answer from the options given)**

1. Bacterial spores are NOT destroyed by  
a) Autoclave                      b) Phenol                      c) Hot air oven                      d) Ethylene oxide
2. Cross infections occurring in hospital is known as  
a) Primary infection                      b) Secondary infection  
c) Nosocomial infection                      d) Reinfection
3. What is the recommended disinfectant to clean a blood spill.  
a) Ethyl alcohol                      b) Sodium hypochlorite  
c) Ethylene oxide                      d) Chlorhexidine
4. The emergency code for accidental fire is  
a) Code black                      b) Code purple                      c) Code blue                      d) Code red
5. Which of the following is NOT a WHO moment of Hand hygiene.  
a) Before having food  
b) Before touching a patient  
c) Before aseptic procedures  
d) After touching patient surroundings.
6. Biological sterilization control autoclave is tested by employing spores of  
a) Geobacillus stearothermophilus  
b) Clostridium tetani  
c) Bacillus subtilis  
d) Coxiella burnetti.
7. Class A fire involves  
a) Liquids                      b) Metals                      c) Gases                      d) Solids

**Essay**

**(1x10=10)**

8. Define hospital acquired infections (HAIs). List the various types of HAI. Discuss the measures to prevent HAIs. (1+3+6)

**Short notes**

**(3x5=15)**

9. Discuss dry heat methods of sterilization
10. Describe management of needle stick injury.
11. Discuss segregation of biomedical waste.

**List the following**

**(3x2=6)**

12. Four patient safety indicators.
13. Two measures to prevent antimicrobial resistance.
14. Four pathogens causing hospital acquired infection.

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