

**. MEDICAL****[BSCN 1024]****OCTOBER 2024****Sub. Code: 2308****B.Sc. (Nursing) DEGREE EXAMINATION****THIRD SEMESTER****PAPER VI – APPLIED MICROBIOLOGY  
AND INFECTION CONTROL INCLUDING SAFETY*****Q.P. Code: 652308*****Time : Three Hours****Maximum : 75 Marks****Answer Section A and Section B Separately****Answer all the Questions****SECTION – A (37 Marks)  
(APPLIED MICROBIOLOGY)****I. Multiple Choice Questions:****(6 x 1 = 6)**

- Organ of locomotion in bacteria is  
A) Slime layer      B) Flagella      C) Fimbria      D) Capsule
- Human anatomical waste is disposed in which color-coded bag:  
A) Yellow bag      B) Red bag      C) Blue bag      D) White bag
- Which antibody appears first after infection?  
A) IgA      B) IgG      C) IgE      D) IgM
- Western blot is confirmatory test for:  
A) Hepatitis B      B) HIV      C) Syphilis      D) Leptospirosis
- Primary amoebic meningoencephalitis is caused by  
A) Acanthamoeba      B) Balamuthia      C) Naegleria      D) E.histolytica
- Predisposing factors for fungal infection are all EXCEPT  
A) Post transplantation      B) Neutropenia  
C) Malignancy      D) Immunocompetent state

**II. Essay:****(1 x 10 = 10)**

- Write in detail about morphology, pathogenesis and laboratory diagnosis of Vibrio cholera.

**III. Short answer:****(3 x 5 = 15)**

- Life cycle of Malarial parasites.
- Dengue virus.
- ELISA.

**IV. Very short answers:****(3 x 2 = 6)**

- Modes of transmission of Hepatitis viruses.
- Enumerate various types of hypersensitivity reaction.
- Enumerate opportunistic fungal pathogens.

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**SECTION – B (38 Marks)**  
**(INFECTION CONTROL INCLUDING SAFETY)**

**I. Multiple choice Questions:** **(7 x 1 = 7)**

1. Geobacillus stearothermophilus bacteria is used as biological indicator in  
A) Hot air oven      B) Autoclave      C) Incubator      D) Filtration
2. Stents is sterilized by  
A) Glutaraldehyde      B) Autoclave      C) Hot air oven      D) Ethylene oxide sterilizer
3. How many moments for hand hygiene as per WHO recommendation?  
A) 8      B) 5      C) 6      D) 4
4. All of the following are component of droplet infection except  
A) N-95mask      B) Cohorting      C) Respiratory hygiene      D) Restricted visitors
5. Blood bags should be collected in which colour bag?  
A) Yellow      B) Red      C) Blue      D) White
6. The following chemical is high level disinfectant  
A) Hypochlorite solution      B) Phenol      C) Chlorhexidine      D) Peracetic acid
7. Hand wash should be performed for atleast  
A) 20 seconds      B) 30 seconds      C) 40 seconds      D) 10 seconds

**II. Essay:** **(1 x 10 = 10)**

1. Define sterilization. Enumerate various physical methods of sterilization. Discuss in detail about Autoclave and its various sterilization control.

**III. Short answers:** **(3 x 5 = 15)**

1. Hand hygiene.
2. Airborne infection control measures.
3. Needle stick injury.

**IV. Very short answers:** **(3 x 2 = 6)**

1. What is the various Health Care Associated Infection?
2. Fire safety.
3. Blood spill management.

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