

**SCHOOL OF NURSING**

**1<sup>st</sup> SESSIONAL EXAMINATION**

**COURSE-B.Sc.3<sup>rd</sup> SEMESTER      TIME-2 HOURS**  
**TOTAL MARKS-50**

**SUBJECT-APPLIED MICROBIOLOGY INCLUDING INFECTION  
CONTROL AND SAFETY**

**Instructions to the candidates**

- Read the question paper very carefully.
- Start writing from 2<sup>nd</sup> page onwards: **don't write on the 1<sup>st</sup> page back side.**
- Do not write anything except your Roll No. on the question paper.
- Possession of **mobile phones** or any kind of written material, arguments with the **invigilator or discussing with co-students** will come **under unfair** means and will **Result** in the **Cancellation of the papers.**

**ALL THE QUESTION ARE TO BE ANSWERED MANDATORY**

**SECTION-A**

**APPLIED MICROBIOLOGY**

**I. Write short notes on:      (3 X 5=15)**

- a) Which group does Staphylococcus aureus belongs to and what are the clinical spectrums of S. Aureus?
- b) Describe the structure and function of bacteria.
- c) Explain about the Streptococcus pyogenes.

**II. Multiple choice Questions:      (5 X 1=5)**

- 1) Microbiology is?

- a) Study of molecules that are visible to human eyes
- b) Study of animals and their family
- c) Study of organisms that are not visible to naked eyes
- d) Study of microscope.

2) Who is known as the father of Microbiology?

- a) Edwin John Butler
- b) Ferdinand Cohn
- c) Robert Koch
- d) Antoni van Leeuwenhoek.

3) Which of the following are produced by microorganisms?

- a) Alcoholic beverages
- b) Fermented dairy products
- c) Breads
- d) All of the mentioned

4) Which of the following produces a toxin that inhibits the release of GABA and glycerine neurotransmitters?

- a) Clostridium perfringens
- b) Clostridium tetani
- c) Clostridium botulinum
- d) Clostridioides difficile

5) Chinese letter pattern is observed in microscopy for

- a) C.diphtheriae
- b) Bacillus anthracis
- c) Clostridium species
- d) Mycobacteria

**III. Fill in the blanks**

**( 5 x 1=5)**

a) Bamboo stick appearance is observed in microscopy for.....

b) Selective medium used for C.Diphtheriae.....

c) Pseudomembranous colitis is caused by.....

d) Scalded skin syndrome is mediated by.....

e) Enterococcus is .....group of bacteria

**Section-B**

**I. Long Essay**

**(1x10=10)**

a) What is laundry management process? Explain the management process in detail?

**II. Short answer**

**(2x5=10)**

a) Plasma sterilization

b) Role of a nurse in prevention of urinary tract infection.

c) Prevention of surgical site infection

**3. Very short answer.**

**(5x1=5)**

a) Sterilization

c) Glutaraldehyde

d) ETO

e) Incineration