

2207H017

BACHELOR OF VOCATION
Medical Laboratory Technology
Subject: Fundamentals of Microbiology-1
Subject Code: MLT503
Semester: Second
July 2022
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labeled

Roll Number

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SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10X1= 10 Marks)

- A. What is gram staining?
- B. Viruses that attack bacteria are called
 - a) Virophage
 - b) Bacteriophage
 - c) Lysophage
 - d) None of the above
- C. What is infection?
- D. Define gram-negative and gram-positive bacteria.
- E. What is bacterial growth?
- F. Write down the principle of autoclave.
- G. What is irradiation?
- H. What is total count and viable count?
- I. What is moist heat treatment?
- J. How nutrient agar media is prepared?

SECTION -B (ESSAY TYPE QUESTIONS)
(5X5= 25 Marks)

1. How prokaryotic cells are differs from eukaryotic cells?
2. What are the various risks and precautions should be taken in microbiology laboratory?
3. Write down the general characteristics of bacteria.
4. Explain the various factors effecting bacterial growth?
5. What do you understand by bacterial culture and how it is prepared?
6. What is sterilization and its principle?
7. What are the various chemical agents used for disinfection?
8. What is a microbiological culture media and its types?

==END OF THE PAPER==