

BACHELOR OF VOCATION
Medical Laboratory Technology
Subject: Fundamentals of Microbiology-II
Subject Code: MLT605
Semester: Third
January 2021
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 short answers type in nature. Attempt any 5 questions. Each question carries 1 mark.
3. Section B comprises 8 essay type questions. Attempt any 5 questions. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything in the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number

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SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)

(10 x 1 = 10 Marks)

- A What is Streaking? Illustrate with a diagram
- B Role of ingredients of culture media
- C Inoculation of culture media
- D Triple Sugar Iron test (TSI)
- E Describe MacConkey Agar
- F What is MIC and MBC?
- G Why do we preserve media?
- H Stocking of pure culture
- I Types of Antibiotic Sensitivity Tests
- J Distribution of culture media in Petri dishes

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

- Q1 What is Culture Media? Classify the various types of Media. What are the precautions used during preparation of a culture medium?
- Q2 Write a note on growth and nutrition of bacteria. What are the various phases of bacterial growth?
- Q3 How do you conduct short term and long term preservation of pure culture?
- Q4 What are the various Biochemical tests of Bacteria? Explain about Citrate Utilization test.
- Q5 What is Antibiotic Sensitivity Testing (AST)? Explain its importance and uses in explaining resistance to antibiotics.
- Q6 What is Pure culture isolation? Explain pour plate method in detail
- Q7 Write a note on composition and preparation of culture media. What is selective and indicator media?
- Q8 Describe in detail the various methods used to conduct Anaerobic culture of bacteria.

*******END OF PAPER*******