

SECTION -B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1. Describe methods for the collection of CSF and stool specimens for carrying out bacteriological investigation.
2. Describe the selective culture media used for the identification of pathogens studied by you giving suitable example?
3. What are microbial drug sensitivity tests? Describe antibiotics and discuss about various methods used for the microbial sensitivity test?
4. Describe about oxidase test?
5. Explain laboratory diagnosis of gas gangrene?
6. Describe MIC and MBC?
7. Describe the laboratory diagnosis of urinary tract infection (UTI)?
8. Discuss the morphology, cultural characteristics, lab diagnosis, pathogenesis and pathology of infection caused by vibrio?

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

2112H011

BACHELOR OF VOCATION
Medical Laboratory Technology (MLT)
Subject: Applied Bacteriology
Subject Code: MLT-701
Semester: Fifth
December 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 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 labelled

Roll Number

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SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. The Bacterium that is most commonly used in genetic engineering is
- Escherichia
 - Klebsiella
 - Proteius
 - Serratia
- B. Anthrax is a
- Vector borne
 - Zoonotic infection
 - Wound bone
 - Soil borne
- C. Bacteria are more sensitive to antibiotics at which phase of growth curve?
- Decline phase
 - Stationary phase
 - Lag phase
 - Log phase
- D. Tubercular bacilli grow best in
- Absence of O₂
 - Presence of CO₂
 - Presence of O₂
 - Presence of H₂
- E. The infected mad dogs may contain
- Nergi bodies
 - Niagri bodies
 - Negri bodies
 - Neisser bodies

- F. Rancidity in spoiled foods is due to
- Lipolytic organisms
 - Proteolytic organisms
 - Toxigenic microbes
 - Saccharolytic microbes
- G. Which one of the following was Gramnegative, chemolithotrophic bacteria?
- Siderococcus
 - E.coli
 - Spirellum
 - Mycoplasms
- H. Staining material of gram positive bacterium is
- Fast green
 - Haematoxylon
 - Crystal violet
 - Safranin
- I. Role of bacteria in carbon cycle is
- Photosynthesis
 - Chemosynthesis
 - Breakdown of organic compounds
 - Assimilation of nitrogen compounds
- J. Attenuation means
- Killing of the bacteria (microorganism)
 - Inactivation of bacteria
 - More activating the bacteria
 - bacteria culture