

# School of Medical and Allied Sciences

Medical Lab Technology

ETE - Jun 2023

Time : 3 Hours

Marks : 100

## Sem IV - BMLS4006 / BMLS4001

### Applied Bacteriology

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

1. Retell the preparation and standardization of inoculum for AST. K1 CO2 (5)
2. Select some points for the necessity of molecular methods for Microbial diagnosis. K2 CO3 (5)
3. Memorize the pathogenesis and symptoms of Lower respiratory tract infections. K1 CO1 (5)
4. Organize the molecular Analysis method of Resistance Determinants in Diarrhea. K4 CO2 (10)

### OR

- Focus on the examination of Air by Settle plate method with interpretation. K4 CO2 (10)
5. Illustrate the requirements for VITEK-2 procedure for susceptibility testing with procedure and interpretation. K2 CO3 (10)
  6. Choose various methods of Antibiotic susceptibility testing with interpretation. K3 CO2 (10)
  7. Explain the collection, transportation, and processing of samples for laboratory diagnosis of Tuberculosis. K3 CO1 (10)
  8. Justify the Membrane filtration technique for examination of water. K5 CO3 (15)

### OR

- Evaluate the surveillance process of hospital environment for microbial load to identify Nosocomial infection. K5 CO3 (15)
9. Outline about the instruments used for Air culture along with reporting of air sample for microbial diagnosis. K4 CO1 (15)
  10. Examine the Lyophilization technique along with procedure and result. K5 CO2 (15)