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School of Medical and Allied Sciences

B.Sc Medical Lab Technology
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem IV - L1UD401T - BMLS4001 - BMLS4006**Applied Bacteriology**General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Define the term "culture medium". K1 (2)
- 2) Demonstrate the settle plate method for air sampling in healthcare facilities. K2 (4)
- 3) Summarize the importance of surveillance of Water for microbial load in controlling nosocomial infections. K2 (6)
- 4) How would you organize the control bacterial strains used in antibiotic susceptibility testing to ensure accurate results? K3 (9)
- 5) How can you organize the results of antibiotic susceptibility testing to facilitate interpretation and decision-making by healthcare providers? K3 (9)
- 6) Justify the importance of surveillance of hospital environment for microbial load in preventing nosocomial infections. K5 (10)
- 7) Categorize the types of epidemiological markers used for bacterial typing. K4 (12)
- 8) Evaluate the impact of antibiotic susceptibility testing on antimicrobial stewardship practices and the prevention of antibiotic resistance. K5 (15)
- 9) Evaluate the reliability of different methods of antibiotic susceptibility testing in predicting clinical outcomes and guiding antibiotic therapy. K5 (15)
- 10) Design a system for surveillance of hospital environment for microbial load using air sampling instruments. K6 (18)