

2025

M.Sc. 3rd Semester Examination
BIOMEDICAL LABORATORY SCIENCE
AND MANAGEMENT

Paper : BML - 306

(Diagnostic Bacteriology)

(Practical)

Full Marks : 50

Time : Four Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.

Answer *all* questions.

1. (a) Write the principle and procedure of antibiotic susceptibility testing (AST).

(b) Measure the zone of inhibition of antibiotics in supplied AST agar plates and interpret the test results following the standard guidelines.

(4+4)+(5+2)
2. (a) Write the steps of collection and timeline of urine specimen for microbiological processing in a clinical laboratory.

P.T.O.

(2)

- (b) "One CLED agar culture plate yields 85 bacterial colonies after inoculation of a urine specimen with a 0.01 ml volumetric loop" — calculate the cell density (CFU/ml) of the clinical specimen and interpret the test result. (3+5)+(5+2)

3. Laboratory Notebook. 10
4. Viva-voce. 10
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