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Reg. No.....

Name.....

**B.Sc. MEDICAL LABORATORY TECHNOLOGY (M.L.T.) DEGREE
EXAMINATION, APRIL 2025**

Fourth Year

DIAGNOSTIC BACTERIOLOGY, VIROLOGY AND SEROLOGY

(Prior to 2008 Admissions – Last and Final Special Merchance)

Time : Three Hours

Maximum : 100 Marks

*Answer Sections A and B in **separate** Answer Books.*

Draw diagrams whenever necessary.

Section A

1. (a) Explain the epidemiology, pathogenesis, and control of Salmonella.
(b) Write about the pathogenesis and lab diagnosis of Pseudomonas and Shigella.

(9 + 9 = 18)

2. Write short notes on :

- (a) Staphylococcus.
- (b) Bacterial food poisoning.
- (c) Epidemiology of Corynebacterium.
- (d) Control of *Vibrio cholerae*.

(4 × 4 = 16)

3. Write Briefly on :

- (a) Antibiotic sensitivity testing.
- (b) Collection and processing of Bone marrow.
- (c) Measurement of bacterial growth.
- (d) Clostridium and its pathogenesis.

(4 × 4 = 16)

Section B

1. (a) Explain the techniques to diagnose viral infection.
(b) Explain the collection, processing, and preservation of biopsy specimens for viral disease identification.

(9 + 9 = 18)





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2. Write short notes on :

- (a) Fluorescent antibody test.
- (b) Medically important RNA virus.
- (c) Classification of virus.
- (d) Determination of IgM antibodies.

(4 × 4 = 16)

3. Write Briefly on :

- (a) Thyroid antibody test.
- (b) Methods for the cultivation of the virus.
- (c) C3, C4 components.
- (d) Latex agglutination test.

(4 × 4 = 16)

