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Reg. No......

Name.....

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

Fourth Year

MYCOLOGY, VIROLOGY AND APPLIED MICROBIOLOGY

(2008 Admission Onwards–Last and Final Special Mercy Chance)

Time : Three Hours

Maximum : 100 Marks

Answer Sections A and B in separate answer books.

*Answer **all** questions.*

Draw diagrams wherever necessary.

Section A

1. Answer in one word or sentence :

- (a) A disease-causing filamentous fungi.
- (b) Filter sterilization.
- (c) Paul Bunnell test.
- (d) HIV virus.
- (e) Superficial mycosis.

(5 × 1 = 5)

2. Write Briefly on :

- (a) Stains for fungal identification.
- (b) Cytochemical diagnostic methods.
- (c) Detection of viral growth in cell culture.
- (d) Medically important RNA viruses.
- (e) Cell culture media.

(5 × 3 = 15)

3. Write short notes on :

- (a) Lab diagnosis of Cryptococcus
- (b) Pathogenicity of Candida species.
- (c) Immunoelectron microscopy.
- (d) Reproduction in fungi.

(4 × 5 = 20)

Turn over





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4. Explain the collection, preservation, isolation, and identification of CSF and biopsy specimens for viral diagnosis

(10)

Section B

1. Answer in one word or sentence

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|----------------------------------|----------------------------|
| (a) Southern Blotting. | (b) Hemagglutination test. |
| (c) A water borne disease. | (d) Methylene blue test. |
| (e) Presumptive coli form count. | |

(5 × 1 = 5)

2. Write Briefly on :

- (a) Antibiotic resistance.
- (b) Respiratory infections.
- (c) Genetic Engineering for vaccine development.
- (d) PCR.
- (e) Detection of C-reactive protein.

(5 × 3 = 15)

3. Write short notes on :

- (a) Collection, transportation, and processing of specimens.
- (b) Airborne diseases.
- (c) Examination of water.
- (d) Infections from blood transfusion

(4 × 5 = 20)

4. Explain how food and food products can be examined for microbial infections.

(10)

