



**D-4572**

Seat No. \_\_\_\_\_

**D. M. L. T. Examination**

**April – 2022**

**General Microbiology, Bio-Medical Microbiology & Serology**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

- (1) Write section - I and Section - II in separate answer sheet.
- (2) Draw figures wherever necessary.
- (3) Figures on right indicate full marks.

**SECTION - I**

- 1 Write short notes on : (any three) 18
  - (a) Classification of culture media. Discuss about enriched media and selective media.
  - (b) Autoclave
  - (c) Flagella
  - (d) Collection and transport of specimens for microbiological investigations.
  
- 2 Write short notes on : (any three) 18
  - (a) Acquired Immunity
  - (b) Name the various classes of Immunoglobulins and Describe about IgM.
  - (c) ELISA
  - (d) Bio-Medical Waste.
  
- 3 Write answer in 2-3 sentences : 14
  - (a) Draw labelled diagram of Bacterial growth Curve.
  - (b) Define Capsule. Give Examples of capsulated organisms.
  - (c) Write Principle of Acid Fast Stain. Give Examples of Acid Fast Organisms.
  - (d) Define Disinfection. Give examples of Chemical Disinfectants.
  - (e) Define Agglutination. Give examples of Agglutination Reactions.
  - (f) Give two examples of Live Vaccines.
  - (g) Write two differences between Active and Passive Immunity.

## SECTION - II

- 4 Write short notes on : (any three) 18
- (a) Laboratory diagnosis of *Staphylococcus aureus*.
  - (b) Laboratory diagnosis of Meningococci
  - (c) Laboratory diagnosis of Cholera
  - (d) Describe about Personal Protective Equipment (PPE)
- 5 Write short notes on : (any three) 18
- (a) Laboratory diagnosis of COVID 19
  - (b) Write virus causing Hepatitis. Describe Laboratory diagnosis of Hepatitis B
  - (c) Hook Worm
  - (d) Laboratory diagnosis of Malaria.
- 6 Write answer in 2-3 sentences : 14
- (a) Examples of Bacteria causing Diarrhoea.
  - (b) Write two differences between *Streptococcus viridans* and *Streptococcus Pneumoniae*.
  - (c) Name two RNA and Two DNA viruses.
  - (d) Draw labelled diagram of *Microfilaria*.
  - (e) Write two examples of Opportunistic Fungi.
  - (f) Write diagnostic tests used for screening and confirmation of HIV Infection.
  - (g) Write name of *Aspergillus* Species.