



Seat No. _____

HB-4572
D. M. L. T. Examination
April - 2023
General Microbiology,
Bio-Mecial Microbiology & Serology

Time : 3 Hours / Total Marks : 70

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

- 1** Write short notes on any Three: **18**
- (a) Bacterial flagella and its importance.
 - (b) Antibiotic Sensitivity Testing.
 - (c) Autoclave and its Sterilization Controls.
 - (d) Transport Culture Media.
- 2** Write short notes on any Three: **18**
- (a) Biomedical Waste Management.
 - (b) Immunoglobulin M.
 - (c) Agglutination Reaction and its applications.
 - (d) Innate Immunity.
- 3** Write answers in 2-3 sentences: **14**
- (a) Draw labeled diagram of Bacterial Growth Curve.
 - (b) Enumerate 4 differences between Exotoxin and Endotoxin.
 - (c) Give four examples of Enriched Media.
 - (d) Define cold sterilization and give its examples.
 - (e) Enumerate 4 different types of ELISA.
 - (f) Enumerate 4 common staining techniques used in Microbiology.
 - (g) Define Epitope and Paratope.

SECTION - II

- 4** Write short notes on any Three: **18**
- (a) Laboratory diagnosis of Salmonella typhi.
 - (b) Blood Culture methods.
 - (c) Hospital Acquired Infection.
 - (d) Laboratory diagnosis of diphtheria.
- 5** Write short notes on any Three: **18**
- (a) Hepatitis B Virus.
 - (b) Amoebiasis.
 - (c) Laboratory diagnosis of fungal infections.
 - (d) Laboratory diagnosis of HIV infection.
- 6** Write answers in 2-3 sentences: **14**
- (a) Collection, Transportation and storage of urine sample for culture.
 - (b) Enumerate 2 Organisms that causes Sexually Transmitted Diseases
 - (c) Name 4 parasites infecting blood.
 - (d) Draw labeled diagrams of egg of Taenia
 - (e) Principal of Polymerase Chain Reaction (PCR)
 - (f) Write 4 opportunistic fungi.
 - (g) Name 4 RNA Viruses.
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