



**MAO-4572**

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

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

**March / April - 2018**

**General Microbiology, Bio-Medical Micro & 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) Bacterial Capsule.  
(b) Bacterial Growth Curve.  
(c) Autoclave.  
(d) Plasmid.
- 2** Write short notes on any **three** : **18**  
(a) Biomedical Waste Management.  
(b) Immunoglobulin A.  
(c) Latex Agglutination Test.  
(d) Innate Immunity.
- 3** Write answers in 2-3 sentences: **14**  
(a) Define Hapten.  
(b) Enumerate two differences between Exotoxin and Endotoxin.  
(c) Give four examples of Enriched Media.  
(d) Define Carrier and its types.  
(e) Define cold sterilization and give its examples.  
(f) Enumerate two differences between Gram Positive and Gram Negative Bacterial cell wall.  
(g) Number of Mycobacteria require for detection by ZN stain and culture.

## SECTION - II

- 4** Write short notes on any **three** : **18**
- (a) Laboratory diagnosis of Enteric Fever.
  - (b) Laboratory diagnosis of Cholera.
  - (c) Hospital Acquired Infection.
  - (d) Laboratory Diagnosis of Urinary Tract Infection.
- 5** Write short notes on any **three** : **18**
- (a) Laboratory diagnosis of Fungal Infection.
  - (b) Laboratory diagnosis of Parasitic Infection.
  - (c) Giardiasis.
  - (d) Laboratory diagnosis of HIV infection.
- 6** Write answers in 2-3 sentences : **14**
- (a) Enumerate four viral Sexually Transmitted Diseases.
  - (b) Draw labeled diagrams of Hook Worm egg.
  - (c) Name four parasites that can be seen in peripheral blood smear.
  - (d) What is zoonotic disease? Give it's examples.
  - (e) What is full form of RNTCP ?
  - (f) Write names of different types of Dermatophytes.
  - (g) Name four RNA Viruses.
-