



**PB-4572**

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

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

**March / April - 2020**

**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) Bacterial Growth Curve  
(b) Define Spore and various arrangement of spores  
(c) Autoclave  
(d) Anaerobic Culture Methods
- 2** Write short notes on any **three** : **18**  
(a) Antigen.  
(b) Bio Medical waste management  
(c) Difference between exotoxin and endotoxin  
(d) Innate immunity
- 3** Write answers in 2-3 sentences : **14**  
(a) Herd immunity  
(b) Draw labelled diagram of Hot Air Oven.  
(c) Define Hypersensitivity.  
(d) Structure of Ig M Immunoglobulin  
(e) Types of antigen-antibody Reactions  
(f) Difference between primary and secondary immune response.  
(g) Types of the various staining

## SECTION - II

- 4** Write shorts note on any **three** : **18**
- (a) Laboratory diagnosis of Salmonella Typhi.
  - (b) Staphylococcal food poisoning
  - (c) Various types of E.coli and Pathogenesis of E.coli
  - (d) Health care associated infections
- 5** Write short notes on any **three** : **18**
- (a) Influenza virus
  - (b) Life cycle and Pathogenicity of Hook worm
  - (c) Bacteriophage
  - (d) Wuchereria Bancrofti
- 6** Write answers in 2-3 sentences : **14**
- (a) Name Two RNA and Two DNA viruses
  - (b) Quellung Reaction
  - (c) Hanging drop preparation
  - (d) Draw labelled diagram of Egg of Trichuris trichuria
  - (e) Types of dermatophytes
  - (f) Larva Migrans
  - (g) Name four Dimorphic, fungi
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