



RZ-4572

Seat No. _____

D. M. L. T. Examination

March - 2019

**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 flagella and its importance.
 - (b) Antibiotic Sensitivity Testing.
 - (c) Hot Air Oven and its Sterilization Controls.
 - (d) Indicator Culture Media.
- 2** Write short notes on any **three** : **18**
- (a) Universal Work Precautions.
 - (b) Immunoglobulins.
 - (c) Agglutination Reaction and it's applications.
 - (d) Acquired Immunity.
- 3** Write answers in 2-3 sentences : **14**
- (a) Draw labeled diagram of Bacterial Growth Curve.
 - (b) Enumerate four methods of Anaerobiosis.
 - (c) Give four examples of Enriched Media.
 - (d) Sterilizing Temperatures, Pressure and Duration use in Autoclave.
 - (e) Enumerate 4 different types of ELISA.
 - (f) Enumerate two differences between Gram Positive and Gram Negative Bacterial cell wall.
 - (g) Define Epitope and Paratope.

SECTION - II

- 4 Write short notes on any **three** : **18**
- (a) Laboratory diagnosis of Cholera.
 - (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) Laboratory diagnosis of malaria
 - (c) Amoebiasis.
 - (d) Laboratory diagnosis of HIV infection.
- 6 Write answers in 2-3 sentences : **14**
- (a) Significant Bacteriuria
 - (b) Draw labeled diagrams of Round worm egg.
 - (c) Name two parasites infecting brain.
 - (d) Define intermediate host. Mention two diseases where human act as intermediate host.
 - (e) Write full form of TORCH.
 - (f) Write four opportunistic fungi.
 - (g) Name four RNA Viruses.
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