



DB-4572

Seat No. _____

D. M. L. T. Examination

April / May – 2015

**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) Robert Koch
(b) Bacterial Flagella
(c) Hot air oven
(d) Anaerobiosis.
- 2** Write short notes on any three : **18**
(a) Antibody
(b) Precipitation reaction
(c) Biomedical waste disposal
(d) Monoclonal antibodies
- 3** Write answers in 2-3 sentences : **14**
(a) Name four capsulated bacteria
(b) Draw labelled diagram of Bacterial Spore
(c) Define Acquired Immunity.
(d) Principle of Enzyme Linked Immunosorbent Assays.
(e) Name four differential bacterial staining methods.
(f) Sterilizing temperatures used in Autoclave.
(g) Define Sterilization.

SECTION - II

- 4 Write short notes on any three : 18
- (a) Laboratory diagnosis of Urinary Tract Infection.
 - (b) Laboratory diagnosis of diphtheria.
 - (c) Collection and transport of clinical specimen for microbiological investigations.
 - (d) Stool examination for parasitic diseases.
- 5 Write short notes on any three : 18
- (a) Laboratory diagnosis of HIV infection.
 - (b) Laboratory diagnosis of Syphilis
 - (c) Laboratory diagnosis of Candidiasis
 - (d) Polio vaccine.
- 6 Write answers in 2-3 sentences : 14
- (a) Name four sexually transmitted infections.
 - (b) Name two parasites infecting blood.
 - (c) Name Pigments produced by Pseudomonas.
 - (d) Draw labelled diagrams of Ascaris lumbricoides eggs.
 - (e) Define intermediate host. Mention two diseases where human act as intermediate host.
 - (f) Name two culture media use for diagnosis of fungus.
 - (g) Name four opportunistic fungi.
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