

[Total No. of Questions : 6]

D.M.L.T.

MICROBIOLOGY

[Time : 3 Hours]

[Max. Marks : 100]

Instructions to the candidates:

- 1.) All questions are compulsory, total questions 6.
- 2.) Figures to right indicate full marks.
- 3.) Draw diagrams wherever necessary.
- 4.) Your answers will be valued as whole.

- Q.1) Define sterilization and disinfection. Enumerate and state principle of chemical disinfectants. Give their uses. [15]
- Q.2) Name organisms causing wound infections. How is pus sample collected, transported and processed in microbiology laboratory? [15]
- Q.3) With a neat labeled diagram of HIV virus discuss transmission and laboratory diagnosis of HIV infection. [15]
- Q.4) Name intestinal nematodes. Describe life cycle and laboratory diagnosis of *Ascaris lumbricoides* infestation. [15]
- Q.5) Write short notes on any four. [20]**
- a) ZN stain
 - b) MacConkey medium
 - c) Autoclave
 - d) Use of personal protective devices in laboratory
 - e) Bacterial growth curve
- Q.6) Write short notes on any four: [20]**
- a) Dermatophytes
 - b) Hepatitis B virus pathogenesis and prophylaxis
 - c) Polio vaccines
 - d) Bile stained eggs in stool
 - e) Media used in mycology

