

Total No. of Questions : 6]

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[3858] - 2
D.M.L.T.
MICROBIOLOGY
(Paper - II)

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.*

Q1) Define sterilization and disinfection. Enumerate and state principals of chemical disinfectants. Give their uses. **[15]**

Q2) Name organisms causing wound infections. How is pus sample collected, transported and processed in microbiology laboratory? **[15]**

Q3) With a neat labeled diagram of HIV virus discuss transmission and laboratory diagnosis of HIV infection. **[15]**

Q4) Name intestinal nematodes. Describe life cycle and laboratory diagnosis of *Ascaris lumbricoides* infestation. **[15]**

Q5) 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

Q6) Write short notes on any four: **[20]**

- a) Dertmatophytes
- b) Hepatitis B virus pathogenesis and prophylaxis
- c) Polio vaccines
- d) Bile stained eggs in stool
- e) Media used in mycology

