Roll No. .................

**MLT - I (Det-L)**
**Subject : Introduction to MLT - I**

Time : 3 Hrs.                               M.M. : 100

**SECTION-A**

**Note:** Very Short  Answer type questions. Attempt any 15 parts.                    (15x2=30)

Q.1   i)   Define Biochemistry?

       ii)   Expand ESR?

       iii)   What are Antiseptics?

       iv)   What are viruses?

       v)   Name any two Disinfectants?

       vi)   Define sterilization?

       vii)   Why Blood is Red in colour?

       viii)   What are Erythrocytes?

       ix)   Expand TLC?

       x)   Draw the diagram of Autoclave?

**SECTION-C**

**Note:** Long answer type questions. Attempt any three questions.                    3x10=30

Q.3   Write a note on Dry & Moist Heat Sterilzation?

Q.4   Explain the Histology of Liver & its functions?

Q.5   What types of precautions we have to take at the time of blood collection?

Q.6   Write a note on isolation of Pure Culture?

Q.7   Give the types of Microscope & Explain Compound Microscope?

xi) What is the Role of DNA?

xii) What are Respiratory Organs?

xiii) What are Erythrocytes?

xiv) What is Broth?

xv) Name any two Antiseptics?

xvi) Define Histopathology?

xvii) Give the Normal Range of ESR.

xviii) What is Microscope?

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts                              10x4=40

Q.2  i)  Explain the various anticoagulants used in Blood Banking?

ii)  Name the Fat soluble vitamins & Give their functions?

iii)  Give the General characteristics of Bacteria?

iv)  How we can prepare a blood smear?

v)  Give coloney characteristics of Bacteria?

vi)  Draw the well labelled diagram of kidney?

vii)  Give the advantages & disadvantages of any four anticoagulants?

viii)  Draw a labelled diagram of microscope?

ix)  Explain the procedure of ESR by any method?

x)  Give the procedure of Hemoglobin Estimation by Sahalis method.

xi)  Explain Moist heat in detail?

xii)  Draw the diagram of Eosinophil & Neutrophil?

xiii)  Give the procedure of Blood Collection?

xiv)  Give the function of Autoclave?

xv)  Give the function of Blood?