

**1st Sem / Branch : DMILT  
Sub.: Fundamentals of MLT**

Time : 3Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 For blood collection \_\_\_\_\_ is used.

- a) Flask
- b) Beaker
- c) Bucket
- d) ~~Syringe~~

Q.2 Hematology analyzer is used for

- a) Histology tests
- b) Routine Blood tests
- c) ~~Blood biochemistry tests~~
- d) Culture tests

Q.3 Common anticoagulant used in blood banks is

- a) CPDA
- b) Heparin
- c) Double oxalate
- d) ~~EDTA~~

Q.4 Normal pH of Urine is

- a) 7.5 - 8.2
- b) 9 - 9.5
- c) ~~6 - 7.5~~
- d) 5 - 6.5

Q.5 HEPA filter are present in

- a) Autoclave
- b) ~~Laminar Air Flow~~
- c) Microscope
- d) None of above

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Q.6 Microscope is used to see

- a) Stars
- b)  Micro organisms
- c) Animals
- d) None of above

### SECTION-B

Note: Objective type questions. All questions are compulsory. (6x1=6)

- Q.7 What is First Aid?
- Q.8 What is a tourniquet?
- Q.9 Why lab coat is important in lab?
- Q.10 Name any two common lab instruments.
- Q.11 Slides are made up of \_\_\_\_\_.
- Q.12 \_\_\_\_\_ are the chemical that stops blood clotting.

### SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Discuss about laboratory safety precautions in details.
- Q.14 Give the uses of laminar.
- Q.15 Why biomedical waste management is so important?
- Q.16 Write the procedure of the blood collection with its requirements.

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Q.17 Draw a diagram of Tissue processor unit.

- Q.18 Write about the types of microtome.
- Q.19 Give the type of syringes used for blood collections.
- Q.20 Write the principle of centrifuge machine and its applications.
- Q.21 Write the applications of BOD incubator.
- Q.22 How will you operate a membrane filter for the microbiological examination of water?

### SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (8x2=16)

- Q.23 Draw a well labeled diagram of microscope and explain its parts?
- Q.24 Write about the principle of blood cell counter with its applications.
- Q.25 Differentiate between physical and chemical balances.

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