

1st Semester

Branch: DMLT

Subject Name: Fundamentals of MLT

Time Allowed: 3 Hrs.

MM: 60

Section -A

Note: Multiple Choice questions. All questions are compulsory.

$$6 \times 1 = 6$$

- Q.1 Refrigerator is used in _____.
(a) Washing (b) Mixing
(c) Bucket (d) Cooling

Q.2 BOD incubator is used for
(a) Histology tests (b) Routine Blood test
(c) Blood biochemistry tests (d) culture

Q.3 Common anticoagulant used for routine tests 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 filters are present in
(a) Autoclave (b) Laminar Air flow
(c) Microscope (d) None of above

Q.6 Electron microscope is used to see
(a) Viruses (b) Fungi
(c) Animals (d) None of above

Section-B

Note: Objective/Completion type questions. All questions are compulsory. 6x1=6

- Q.7 What is First Aid?
Q.8 Expand RPM?
Q.9 Give the use of lab coat?
Q.10 Name any two common lab instruments.
Q.11 Petriplates 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. $8 \times 4 = 32$

- Q.13 Discuss about laboratory ethics in detail.
 - Q.14 Give the uses of Distillation plant.
 - Q.15 What do you mean by BMW? Why its management is so important?
 - Q.16 Give the procedure of the blood collection with its requirements.
 - Q.17 Differentiate between simple and compound microscope.
 - Q.18 Write about the care and maintenance of colorimeter.
 - Q.19 Give the types of syringes used for blood collection.
 - Q.20 Write a note on centrifuge machine and its applications.
 - Q.21 Differentiate between open blood collection system and closed blood collection system.
 - Q.22 How will you operate a membrane filter for the microbiological examination of water?

Section-D

Note: Long answer questions. Attempt any two questions out of three questions.

2x8=16

- Q.23 Draw a well labeled diagram of microscope with its parts and give its working principal?
Q.24 Explain the principle of biochemistry analyzer with its applications.
Q.25 Explain about physical and chemical balances.