

2021

(Held in 2022)

Paper : MLT/MDT-VC-1026

(Biochemistry-I)

(Medical Laboratory Technician/Medical Lab & Molecular Diagnostic Technology)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the question

1. Answer the following as directed.

1X7=7

- Chilled specimen is required for _____ estimation.
- The site of collection of CSF is _____.
- The normal pH of synovial fluid is _____.
- The science that deals with the measurement of the capacity of a chemical-coloured system to absorb light is known as _____.
- A porcelain dish is used for _____.
- Blood and 3.8 % trisodium citrate ratio for ESR estimation is _____.
- Conical flask is also known as _____.

2. Answer the following questions:

2X4=8

- What are complications related to venous blood collections?
- What are the differences between graduated and volumetric pipettes?
- Mention any two uses of water bath in clinical laboratory.
- What is the significance of cuvette in colorimeter?

3. Answer the following (any three):

5X3=15

- Calculate how many millilitres of a 5.0M CuSO_4 solution are needed to prepare 0.350L of 0.500M CuSO_4 .
- Mention the differences between Normality and Molarity.
- Explain in details about physical Examination of Urine.
- Draw a labelled diagram of standard laboratory balance. Mention the standard operating procedure (SOP) for the laboratory balance.
- Mention the functions of spirit lamp and wire gauze. Why are most apparatus made of glass?

4. Answer the following (any three):

10X3=30

- Write the principle of centrifugation. How is sedimentation rate measured during centrifugation? Mention the applications of centrifugation.