

Term End External Examination 1st Semester (Session-Feb 2025)

Subject: Skill Enhancement Course

Course No and Title: CBC122S/MLT-I: Fundamentals of Medical Lab Technology

Time: 1.15 hours Max Marks:50 Min. Marks:20

Section A: Objective Type Questions

Q1. Choose the appropriate Answer: (4x1.5=06)

i. What is the main purpose of a clinical laboratory?

- A Treating patients B Conducting medical tests and analysis
C Manufacturing medical equipment D Selling laboratory supplies

ii. What is the safest way to handle biological waste?

- A Disposing of it in regular trash bins B Burning it in an open area
C Using designated biohazard disposal methods D Storing it indefinitely in the lab

iii. Which of the following is the most common site for venous blood collection?

- A Femoral vein B Median cubital vein
C Radial artery D Brachial artery

iv. What is the primary purpose of using anticoagulants in blood collection?

- A To prevent clotting of blood samples B To increase the viscosity of blood
C To change the color of the sample D To enhance RBC aggregation

Section-B: Descriptive Type Questions (Short Type)

Q2: Answer all the Questions (4 x 4 =16)

- i. Enumerate the core principles of Medical laboratory?
ii. List some personal protective equipment (PPE) used in a laboratory?

iii. Differentiate between Plasma and Serum?

iv. Enumerate the equipment required for performing venipuncture?

Section – C: Descriptive Type Questions (Medium Type)

Answer all the questions: (2 x 7=14)

Q3. What is the professional code of Conduct for Medical personnel?

OR

Write a brief note on Clinical borne diseases?

Q4. Explain the mechanisms by which Sodium Fluoride and EDTA act as anticoagulants for blood sample preservation?

OR

Discuss briefly the importance of Medical report?

Section – D: Descriptive Type Questions (Long Type)

Answer any one of the following: (1 x 14=15)

Q5. Explain the Different Types of Laboratory Hazards?

Q6. Explain in detail the procedure of phlebotomy? What are the potential risks associated with it?