

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(MLS) (Sem.-4)

CLINICAL BIOCHEMISTRY-I

Subject Code : BMLS-405

M.Code : 48120

Date of Examination : 24-12-2022

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.**

SECTION-A

1) Answer briefly :

- a) How maintenance of records is important?
- b) Why bilirubin is conjugated?
- c) What is standard deviation?
- d) What is renal threshold of glucose?
- e) What is a titer?
- f) What is a peptide bond?
- g) Discuss tertiary structure of protein?
- h) What is the significance of a control?
- i) What do we mean half life of a radioisotope?
- j) Define radioactivity.

SECTION-B

2. Discuss indirect method of ELISA in detail. Give its advantages and disadvantages.
3. Discuss the ethics and responsibilities of medical lab technologist.
4. Discuss various methods for estimating uric acid in blood sample.
5. Give various types of hazards which occur in lab and various safety measures to prevent these hazards.
6. Describe any one method of estimating urea and creatinine in blood.

SECTION-C

7. Write down various methods of estimation of calcium and phosphorous. Explain one method of each in detail alongwith their clinical significance.
8. Define quality control. Explain external quality control. Write some errors involved in internal quality control.
9. Write down various methods of estimating proteins in blood and urine sample. Explain any one method of each analyte in detail with its clinical significance.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.