

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(MLS) (2013 to 2017) (Sem.-4)

CLINICAL BIOCHEMISTRY-I

Subject Code : BMLS-405

M.Code : 48120

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) Define radioactivity.
- b) What is a titer?
- c) What is standard deviation?
- d) What is renal threshold of glucose?
- e) Why bilirubin is conjugated?
- 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) How maintenance of records is important?

SECTION-B

- 2) Define Quality Control and quality assurance.
- 3) Write down any ten applications of radio isotopes in clinical biochemistry lab. Also write about safety measures while handling of such isotopes.
- 4) Discuss various methods for estimating Bilirubin in blood sample.
- 5) Give various types of hazards which occur in lab and various safety measures to prevent these hazards.
- 6) Discuss the Ethics and Responsibilities of medical lab technologist.

SECTION-C

- 7) Name various methods of estimating glucose in blood and urine. Describe any method of estimating glucose in blood and urine in detail.
- 8) Define General Principle of ELISA. Give its types and explain sandwich ELISA in detail alongwith its significance?
- 9) Write down various methods of estimating sodium and potassium in a serum sample. Explain anyone 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.