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

Subject Code : BMLS-405

M.Code : 48120

Max. Marks : 60

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.

1) Answer briefly :

- Define radioactivity.
- What is a titer?
- What is standard deviation?
- What is renal threshold of glucose?
- Why bilirubin is conjugated?
- What is a peptide bond?
- Discuss tertiary structure of protein.
- What is the significance of a control?
- What do we mean half life of a radioisotope?
- 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.