

**Roll No.....**  
**Total No. of Questions: [09]**

**Total No. of Printed Pages: [01]**

**B.Sc. (MLS) (Semester – 4<sup>th</sup>)**  
**CLINICAL BIOCHEMISTRY-I**  
**Subject Code: BMLS1-427**  
**Paper ID: [130518]**

**Time: 03 Hours** **Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A** **(2 marks each)**

Q1. Attempt the following:

- a. Hazards in clinical biochemistry laboratory
- b. Estimation of uric acid
- c. Blood and plasma
- d. Structure of glucose
- e. Biochemical components in human body
- f. Toxicity of Lead
- g. Auto-analysers
- h. Record management and maintenance
- i. Immuno-diffusion
- j. Normal range of bilirubin in human body

**Section – B** **(5 marks each)**

Q2. Write a note on quality control & quality assurance in clinical biochemistry laboratory

Q3. Explain principle and procedure for estimation of sodium and potassium

Q4. Discuss different screening procedure for detection of any two drugs

Q5. Write a note on application of radioisotopes in clinical biochemistry

Q6. Explain principle and application of RIA

**Section – C** **(10 marks each)**

Q7. Discuss in detail the principle and procedure for estimation of protein, urea and creatinine in blood

Q8. What are toxic metals and their toxicity? Discuss in detail

Q9. What is ELISA and its principle? Discuss its types