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Total No. of Pages : 01

Total No. of Questions : 08

**B.Sc. (MLS) (Sem.-4)**  
**CLINICAL BIOCHEMISTRY-I**  
**Subject Code : BMLS-403-18**  
**M.Code : 77711**  
**Date of Examination : 21-06-21**

Time : 2 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. **Attempt any FIVE question(s), each question carries 12 marks.**
  
1. What are the various hazards & safety measures we should take in a clinical biochemistry laboratory, write in detail?
2. Discuss in detail the quality control parameters for biochemistry, and clinical laboratory. Write a note on various tools that are used for quality control.
3. Write in detail about principles, procedures for estimation of calcium, phosphorous, and phosphates & assessment of the following including errors involved and their corrections.
4. Write in detail about the various instruments used for radiation detection. Write the principle of any one of the instruments.
5. Define Radionuclides. Write the applications of radioisotopes in biochemistry mainly in clinical investigation and diagnosis. Discuss in detail.
6. Write a detailed note on principles of assay procedures, normal range in the brood, serum, plasma, and urine of glucose and proteins.
7. Write a detailed note on management and maintenance of records in a clinical biochemistry laboratory.
8. Write a detailed note on principles of assay procedures, normal range in the brood, serum, plasma, and urine of creatinine and bilirubin.

**Note: Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.**

**Student found sharing the question paper(s)/answer sheet on digital media or with any other person or any organization/institution shall also be treated under UMC.**

**Any student found making any change/addition/modification in contents of scanned copy of answer sheet and original answer sheet, shall be covered under UMC provisions.**