

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(MLS) (2011 to 2017) (Sem.-4)

CLINICAL BIOCHEMISTRY-I

Subject Code : BMLS-405

Paper ID : [D1153]

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 :

- What is coefficient of variation?
- Explain the terms sensitivity and specificity.
- What type of bond is responsible for the formation of a protein?
- What are lipoproteins?
- Name various reactions of urea cycle.
- What is the principle of DAM method of urea estimation?
- What are the instruments to detect radioactivity?
- Write full form of ELISA.
- What are β and γ rays?
- What are essential factors for a standardized lab?

SECTION-B

- 2) Discuss various applications of radioisotopes in a biochemistry laboratory.
- 3) Describe the principle and method of determination of proteins in a blood sample. What is its normal value?
- 4) Write a short note on the quality control.
- 5) Write a short note on hazards and safety measures in clinical biochemistry laboratory.
- 6) Give the method, principle of indirect ELISA. Give its applications.

SECTION-C

- 7) Describe in detail the principle and procedure for determining the level of bilirubin in a clinical sample. Discuss its clinical significance along with its normal value.
- 8) Describe various methods for the estimation of blood creatinine. Give normal value as well as their clinical significance.
- 9) Discuss principle of flame photometry. Write a detailed note on estimation of serum sodium. Give normal value as well as its clinical significance.