Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

Bachelor of Science (Medical Lab Sciences)   (Sem.–4)
CLINICAL BIOCHEMISTRY-I
Subject Code : BMLS403-18
M.Code : 77711
Date of Examination : 02-06-23

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS 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 have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1.   **Answer all of them :**

   a) Write down the role of log book in biochemistry laboratory?

   b) What is difference between serum and plasma?

   c) What BUN test and role of this test in clinical biochemistry laboratory?

   d) Write down the role of quality control in laboratory.

   e) What is cobalt - 60?

   f) Write down the types of errors involved in procedures.

   g) What is the normal range of creatine and glucose in blood?

   h) Write down the role of enzyme in assay.

   i) Why phosphates estimation is carried out?

   j) What do you mean by denaturation of protein?

SECTION-B

2) Write down the principle and procedure of sandwich ELISA.

3) Breifly describe the handling and proper disposal of radioactive substances.

4) What is radioactivity? Discuss about Geiger counter instrument.

5) Discuss about safety measures in clinical biochemistry laboratory.

6) Write down the application of radioisotopes in clinical biochemistry.

SECTION-C

7) Describe in detail principle and procedure for determining the level sodium in a clinical sample.

8) Define quality assurance and discuss about types of quality assurance.

9) Discuss about the principle and procedure for estimation of creatinine in clinical sample of serum and urine.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.