Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Sc. (MLS) (Sem.-4)
CLINICAL BIOCHEMISTRY-I

Subject Code: BMLS-405 M.Code: 48120

Date of Examination: 11-07-22

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 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:

- a) What is the basic principle of disposal of lab wastes?
- b) What is sandwich ELISA?
- c) Explain the terms precision and sensitivity.
- d) What is the role of sodium in our body?
- e) How mean is different from mode?
- f) What is esterified cholesterol?
- g) What are essential factors for a standardized lab?
- h) Which is the best test to check renal function?
- i) What are the different precautionary measures against fire?
- j) By which process uric acid is produced in our body?

1 M-48120 (S2)-920

SECTION-B

- 2) Explain briefly hazards and safety measures in clinical biochemistry lab.
- 3) Describe the principle and method of determination of creatinine in a blood sample. What is its normal value?
- 4) What are radioactive isotopes? List some of them with their application. Discuss RIA in detail.
- 5) Write short notes on standard deviation.
- 6) Write a short note on laboratory organization and maintenance of records.

SECTION-C

- 7) Discuss various methods for the estimation of bilirubin in a blood sample. Explain the significance of direct and indirect bilirubin for the diagnosis.
- 8) What is quality control and quality assurance? Describe in detail how internal and external quality control is helpful in achieving quality.
- 9) Describe in detail the principle and procedure for determining the level of potassium in a clinical sample.

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.

2 | M-48120 (S2)-920