PG CBCS M.Sc. Semester-I Examination, 2023 MEDICAL LABORATORY TECHNOLOGY PAPER: MLT 103 (CLINICAL BIOCHEMISTRY)

## Full Marks: 40

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

## **GROUP-A**

## Answer any **FOUR** questions:

- 1. What are glycosaminoglycans?
- 2. Define motif with example.

3. What is kcat?

4. Write down any two functions of vitamin B<sub>12</sub>.

- 5. Mention two differences between nucleoside and nucleotide.
- 6. What is half-life of radioisotope?

## **GROUP-B**

#### Answer any FOUR questions:

7. Discuss the Lineweaver-Burk double reciprocal plot.

8. Why LDL is called bad cholesterol? Write down any two functions of lipoprotein.

2+2

 $4 \times 4 = 16$ 

 $8 \times 2 = 16$ 

9. Write down the importance of phospholipid.

10. Write a short note on non-classical function of Vitamin-D.

11. Write a short note on Wobble hypothesis.

12.Discuss the role of isotopes in treatment and diagnosis of diseases.

### **GROUP-C**

# Answer any <u>TWO</u> questions:

13. Classify glycolipid with example. What is ceramide? Mention any two differences between glycerophospholipid and sphingophospholipid. 5+1+2

14. What is competitive inhibition? Write a short note on allosteric regulation and suicide inhibition. 2+3+3

15. Write down the RDA, sources and functions of vitamin B3.

 Classify amino acids according to structure. Write down the functions of 'Myoglobin'.

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2×4=8

ECIT

ESTD 20

RALLIB

**Time: 2 Hours** 

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