



K23U 4093

Reg. No. : .....

Name : .....

I Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, November 2023  
(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN PHYSIOLOGY  
1C01 PLY : Biological Chemistry

Time : 3 Hours

Max. Marks : 32

- I. Essay questions. Answer **any two**. (2×6=12)
- 1) Write an essay on classification of carbohydrates.
  - 2) Explain biological properties of water and its significance.
  - 3) Write about the structural organization of proteins.
  - 4) Explain the different factors affecting the velocity of enzyme action.
- II. Short essay questions. Answer **any two**. (2×3=6)
- 5) Write a note on Michaelis-Menten equation.
  - 6) Briefly describe the role of liver in metabolism.
  - 7) Write a note on glycolipids.
- III. Short answer questions. Answer **any six**. (6×2=12)
- 8) Write down the biological importance of lipids.
  - 9) What are non-polar molecules ? Give an example.
  - 10) What is Lecithin ?
  - 11) What is meant by polyunsaturated fatty acids ? Give an example.
  - 12) Distinguish between apoenzyme and holoenzyme.

P.T.O.

K23U 4093



13) Comment on uncompetitive enzyme inhibition.

14) Give a note on covalent bonds.

15) What is zwitterion ?

IV. Multiple choice questions. Answer all.

(4.×05=2)

16) Enzyme which has different molecular structure but has same function called

A) Co-enzymes

B) Isoenzymes

C) Multi enzymes

D) Oligomeric enzymes

17) Lactose is a disaccharide formed of

A) Two  $\alpha$  D glucose

B) D-glucose and D-galactose

C) D glucose and D-fructose

D) D-fructose and D-galactose

18) Which of the following is an essential amino acid ?

A) Methionine

B) Glycine

C) Alanine

D) Serine

19) Which of the following is an example for phosphoproteins ?

A) Hemoglobin

B) Rhodopsin

C) Casein

D) Keratin

