K20U 3205

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Reg. No.		
Name ·		

## I Semester B.Sc. Degree (CBCSS-Supplementary) Examination, November 2020 (2014 – 2018 Admissions) COMPLEMENTARY COURSE IN PHYSIOLOGY 1C01PLY: Biological Chemistry

Time: 3 Hours - Max. Marks: 32

I. Answer any one.

 $(1 \times 6 = 6)$ 

- 1) Explain beta oxidation.
- 2) Explain mono-, di-and polysaccharides and give their biological function.
- II. Answer any one.

 $(1 \times 6 = 6)$ 

- 3) What are Essential, Semi-essential and Non-essential amino acids? What is the biological role of protein?
- 4) Explain the bond or interaction in biomolecules.
- III. Answer any four.

 $(4 \times 3 = 12)$ 

- 5) Water is dipolar in nature. Why?
- 6) Alpha helical structure of protein.
- 7) Lock and key hypothesis.
- 8) ATP.
- 9) Factors influencing enzyme action.
- 10) Draw the linear chain structure of a monosaccharide.

## IV. Answer any six.

 $(6 \times 1 = 6)$ 

- 11) Transamination.
- 12) Gluconeogenesis.
- 13) Hexokinase.
- 14) Active site.
- 15) Macromolecule.
- 16) Reversible inhibition.
- 17) Role of liver in metabolism.
- 18) Activation energy.



K20U 3205	i		$(2 \times 1 = 2)$
V. Answer the following.  19) Match the following.  a) V <sub>max</sub> b) pKa c) alpha 1-4 linkage d) Histone  20) Choose the right ans a) A co-enzyme in or A) NADP B b) Table sugar A)Glucose c) Find the odd one A) Elastin d) Co-factor of Hex	Henderso wer from the optio xidation-reduction  CoA  Fructose out.	Menten equation on-Hassel balch equation ns givens. reaction C) Biotin C) Sucrose C) Myosin	D) Folic acid D) Ribose D) Micelle D) CI-
A) Mg++			