THE FIRST CONTRACT CO	ø
Reg. No. :	K20U 3342
Name :	

## I Semester B.Sc. Degree CBCSS (OBE) Reg./Sup./Imp. Examination, November 2020 (2019 Admn. Onwards) COMPLEMENTARY ELECTIVE COURSE IN PHYSIOLOGY 1C01PLY: Biological Chemistry

Time: 3 Hours

Max. Marks: 32

I. Essay Questions. Answer any two.

 $(2\times6=12)$ 

- 1) Explain the role of liver in Fat metabolism and Protein metabolism.
- 2) Describe the factors affecting enzyme activity.
- 3) What are Monosaccharides? Give its classification with suitable example.
- 4) Describe the classification of lipids in detail.
- IL Short Essay Questions. Answer any two.

 $(2 \times 3 = 6)$ 

- 5) Write a note on storage polysaccharides with two examples.
- 6) Describe the Tertiary and Quaternary structure of proteins.
- 7) Describe the Second law of thermodynamics. Explain the concept of Entropy.
- III. Short Answer Questions. Answer any six.

 $(6 \times 2 = 12)$ 

- 8) Explain covalent bond and its important characteristics.
- 9) What are buffers? Give an example.
- 10) What is meant by non-competitive inhibition of enzyme action? Give an example.
- 11) What is a Zymogen? Give an example.

## K20U 3342



		· ·			
	12)	What are peptides? Classify.			
	13)	What are Steroids? Give an example	<del>)</del> .		
	14)	What is Cooperativity of an enzyme?	,		
	15)	What is BMR? What are the factors a	affe	cting it?	
IV		tiple Choice Questions. Answer all.			$(4 \times 0.5 = 2)$
		Which of the following is an example  a) Glyceraldehyde  c) Ribose	p)	Tetroses ? Erythrose Glucose	
	17)	<ul><li>Hydrolysis reactions are catalysed by</li><li>a) Oxidoreductase</li><li>c) Hydrolase</li></ul>	p)	nzymes called Ligase Lyase	
	18)	The extent of randomness or disorder a) Enthalpy c) Free energy	b)	n a system is called  Entropy  Activation energy	
	19)	Which of the following is a structural  a) Starch c) Chitin	b	lysaccharide ? ) Glycogen ) Fructose	