SH-III/Nutrition-301/C-5/19

4+1=5

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B.Sc. 3rd Semester (Honours) Examination, 2019 NUTRITION

Course ID: 32311 Course Code: SH/NUT/301/C-5

Course Title: Nutritional Biochemistry-I

Time: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

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1.	Ansv	wer any five questions of the following:	2×5=10
	(a)	Define deamination.	
	(b)	What do you mean by glycogenolysis?	
	(c)	What are lipoproteins?	
	(d)	What do you mean by K_m ?	
	(e)	What are MUFA and PUFA?	
	(f)	What is glycolysis?	
	(g)	What is Q_{10} ?	
	(h)	Define holoenzyome	
2.	Ansv	wer any four questions of the following:	5×4=20
	(a)	How can you classify engymes according to the internationally accepted sproper examples for each class.	standards? Cite 5
	(b) What are the end products of transamination? What is the significance of transamination? 2+3=5		
	(c)	Classify lipoproteins.	5
	(d)	What do you mean by enzyme inhibition? Describe competitive inhibition.	2+3=5

(e) Derive the "Double reciprocal plot" from the Michaelis-Menten Equation. Why is it named

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(f) Give a schematic diagram of the flow of electrons through the ETC.

3. Answer *any one* question of the following:

 $10 \times 1 = 10$

(a) What are ketone bodies? How are ketone bodies produced in the body? What is ketosis? 2+6+2=10

(b) Why Kreb's cycle is also called as TCA cycle? Describe this cycle mentioning eight steps involved therein. 2+8=10