University of Ruhuna- Faculty of Technology Bachelor of Biosystems Technology Honours Degree Level 1 (Semester II) Examination, November/December 2023 Academic year 2021/2022

Course Unit: BST 1242 Basic Biochemistry (Theory)
Duration: One and Half Hours (1.5 h)

Instructions

Answer All Three (03) Questions.

Question 01

A. State Four (04) major functions of lipids. (8 Marks)

- B. Distinguish between Hydrolysable and Non-hydrolysable Lipids. (4 Marks)
- C. Differentiate between Cis and Trans fatty acids. (4 Marks)
- D. Mention Three (03) advantages of fats over polysaccharides as a storage material. (6 Marks)
- E. What do you understand by lipid-wax? (3 Marks)

Question 02

A. Identify the suitable RNA type according to the function given in below table.
(6 Marks)

Type of RNA	Function	
	Translate the information in mRNA into a specific sequence of amino acids	
	Carrying information for the synthesis of a protein from nucleus to cytoplasm	
	Synthesis of proteins	

B. Identify and mention the correct term	Himman at 1	
A Cast and the self-man desired term.	withthese (Marks)
Both DNA and RNA contain two major purine bar	ses i.	and ii.
The pyrimidine: iii in DNA is replaced by	the pyrimidine	
C. Briefly discuss five functions of amino acids.		() Marks)
	randi	o Marks)
D. What are the types of amino acids based on essenti for each type.	ality? Give at I	east one example Marks)
Question 03	*	
A. What are the significant differences among the poly	Salas Francio	
(a Mark 4) we stript I add a wind Non-hydrolystable Lipids with Mark (a Mark)		Marks)
C. Name Five (05) important commercial products of commercial produc	ellulose. (5)	Marks)
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ele RNA type according to the function given in bilaw rable.		
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