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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF ANIMAL SCIENCE AND FISHERIES

	TITLE: Metabolism of Carbohydrates, Lipids, Proteins and Nucleic AcidsUNIT:2
Q1a	Define carbohydrates <mark>1 mark</mark>
b	Define glycogenesis 1 mark
С	Give an overview of the major pathways of carbohydrate metabolism, emphasizing
	the fate of glucose but also indicating the sites of entry of galactose and fructose into the pathways <mark>5 marks</mark>
d	Describe the Kreb's cycle. 18 marks
Q2a b	Define simple proteins. 1 mark State and explain the examples of simple proteins. 14 marks
Q3	Write short note on the following:
χ.	(i) Transamination 6 ^{1/2} marks
	(ii) Oxidative deamination 8 ^{1/2} marks
Q4a b	Give the functions of lipids. <mark>7 marks</mark> Enumerate the factors affecting absorption of lipids. <mark>8 marks</mark>
Q5	Explain the stepwise reaction involved in the production of ketone bodies using word equations only. 15 marks
Q6	 Write short notes on the following: (i) Glycogen 5 marks (ii) Lactose 7 marks (iii) Sucrose 3 marks