

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DIPLOMA IN AGRICULTURE

AAD 2406: BIOCHEMISTRY

DATE: DECEMBER 2024 TIME: 1½ HOURS

INSTRUCTIONS: Answer question **one** and any other **two** questions

OUESTION ONE (30 MARKS)

QUI	ESTION ONE (SUMARKS)	
a)	Explain the following properties of carbohydrates	
	i)Solubility:	(3marks)
	ii)Sweetness:.	(3 marks)
	iii)Energy storage:	(3 marks)
	iv)Structural support:.	(3 marks)
b)	Explain the various components of a bio-membrane.	(8 marks)
c)	Why are the following important in the body:	
	i) Amino Acids	(2 marks)
	ii) Proteins	(2 marks)
	iii) Carbohydrates	(2marks)
d)	Discuss the role of carbohydrates	(4 marks)
QUI	ESTION TWO (15 MARKS)	
a)	Explain the various molecular components of a cell.	(8 marks)

b) Explain the properties of bio-membranes. (7 marks)

QUESTION THREE (15 MARKS)

a) Explain the classification of carbohydrates (8 Marks)

b) Discuss the various tests used to indicate the presence of carbohydrates. (7 marks)

QUESTION FOUR (15 MARKS)

a) Explain and classify proteins based on their structure, function and composition. (10 marks)

b) Explain the properties of proteins (5 marks)