CHUKA



UNIVERSITY

UNIVERSITY EXAMINATION RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY

BMET 316: METABOLISM

STREAMS: BSc. BMET TIME: 2 HOURS

DAY/DATE: TUESDAY 10/08/2021 8.30 A.M - 10.30 A.M.

INSTRUCTIONS

- Answer All the Questions
- Do not write on the question paper

QUESTION ONE: (30 Marks)

(a) Discuss the following in relation to **Gout**.

(i) Causes. (2 marks)

(ii)Clinical features. (5 marks)

(iii)Treatment. (2 marks)

(b) Discuss purine nucleotide catabolism and its clinical relevance. (10 marks)

(c) Define ketolysis and explain its functions. (4 marks)

(d) Explain mechanism of ammonia intoxication of brain. (7 marks)

QUESTION TWO:(20 Marks)

- (a) Discuss in details, the urea cycle, highlighting the genetic defects associated with it and management of the conditions resulting from the defects. (12 marks)
- (b) Discuss the synthesis, degradation and conversion of glutamate to special substances.

(8marks)

QUESTION THRE	E: (20 Marks)
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(a) Explain the causes, clinical manifestations and laboratory diagnosis of;	
(i) Albinism	
(ii) Von Gierke's disease	(10 marks)
(d) Describe Kreb's Cycle and its relevance in the cell.	(10 marks)