BIOC 424

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE AND TECHNOLOGY

BIOC 424: BIOCHEMICAL ENDOCRINOLOGY

STREAMS: BSC (BMET)

TIME: 2 HOURS

8.30 A.M. – 10.30 A.M.

DAY/DATE: WEDNESDAY 15/04/2020 INSTRUCTIONS:

• Answer question ONE and any other TWO questions

• Do not write on the question paper

QUESTION ONE (30 MARKS)

- (a) Briefly discuss the hormones from class insect involved in moulting [5 marks]
- (b) Using a well labeled diagram, describe the three compounds of C18 estrogen hormones
- (c) Describe briefly the biosynthesis of the hormone insulin [5 marks]
- (d) Outline 5 physiological functions of glucocorticoid hormones [5 marks]
- (e) Insulin deficiency leads to diabetes mellitus in man. Outline characteristics of this disease

[5 marks]

[5 marks]

(f) Highlight disorders as a result of hypopituitarism [5 marks]

QUESTION TWO (20 MARKS)

(a) Describe briefly the functions of parathyroid hormones [10 marks]
(b) With the aid of diagrams, describe the biosynthesis and the structure of thyroid hormones. [10 marks]

QUESTION THREE (20 MARKS)

(a)	Describe the functions of adrenal medullar hormones; epinephrine and nor epinephrine?	
		[10 marks]
(b)	Describe the general functions of hormones	[10 marks]
QUE	ESTION FOUR (20 MARKS)	
(a)	Describe in details the biosynthesis and metabolism of the hormone testosterone	

[10 marks]

(b) Discuss in detail the disorders as a result of a decrease or excessive corticosteroids.

[10 marks]
