

UNIVERSITY

# UNIVERSITY EXAMINATIONS

## EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

**ZOOL 431: ENDOCRINOLOGY** 

**STREAMS: BSC SCIENCE** 

TIME: 2 HOURS

11.30 A.M. – 1.30 P.M.

**DAY/DATE: TUESDAY 16/04/2019** 

#### **INSTRUCTIONS:**

- Answer ALL questions in section A and any TWO from section B
- Use illustrations where applicable

## **SECTION A (30 MARKS)**

Q1.	(a)	Distinguish endocrine from paracrine and apocrine systems.	(3 marks)		
	(b)	By reference to Adrenocortropic hormone (ACTH), describe horm feedback mechanism.	none negative (3		
marks)					
Q2.	(a)	Explain the mechanism of action of a protein/polypeptide hormon tissue.	e at the target (4		
marks)					
	(b)	Describe two antagonistic hormones in insects.	(2 marks)		
Q3.	Explain the effect of parathyroid hormone (PTH) on:				
	(a) (b)	Kidneys Bones	(3 marks) (3 marks)		
Q4.	Descr	escribe how the Hypothalamo-Pituitary axis regulates the functions of the testes.			
Q5.	(a)	(6 marks) Mention the cell types of the islets of Langerhans and their secretions. (3 marks			
	(b)	Describe the symptoms of type 2 diabetes.	(3 marks)		

# SECTION B (40 MARKS)

Q6.	(a)	Describe Renin-Angiotensin-Aldosterone system in man.	(12 marks)		
	(b)	Explain the effects of excess cortisol in the blood.	(8 marks)		
Q7.	Descril cycle.	be the principal ovarian and endometrial changes that occur during	the menstrual (20 marks)		
Q8.	(a)	Identify six adenohypophysial hormones and relate them to hypothalamic hormones which control them. (12			
marks)					
	(b)	Describe the main actions of Iodothyronines.	(8 marks)		