

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

FIRST YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION 2016/2017 ACADEMIC YEAR

REGULAR

COURSE CODE: AAS 3111

COURSE TITLE: ZOOLOGY

EXAM VENUE: STREAM: (BSc Agricultural Extension & Education)

DATE: EXAM SESSION:

TIME: 2 HOURS

Instructions

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B
- 2. Candidates are advised not to write on the question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

SECTION A [30 MARKS]

Answer ALL questions in this section

	1.	Define the following terms:		
		a. Vertebrate Zoology	(1 mark)	
		b. Anatomy	(1 mark)	
		c. Physiology	(1 mark)	
	2.	State three characteristics of mammals belonging to the order <i>Monotremata</i> .	(3 marks)	
	3.	Mammalian bodies are covered with hair. Outline four functions of mammalian h	,	
	4.	Give four adaptations of birds for flight.	. (4 marks)	
	5.			
		expiration.	(4 marks)	
	6.	Give three reasons why birds migrate.	(3 marks)	
	7.	Briefly explain the benefits of low resting metabolism in reptiles.	(3 marks)	
	8.	Outline any three characteristics of fish belonging to class <i>Chondrichthyes</i>	(3 marks)	
	9.	Briefly describe vocalization in frogs.	(3 marks)	
SECTION B [40 MARKS]				
Answer ANY TWO questions from this section				
	10.			
a. Explore the various mammalian adaptations that explain their success in the				
		environment.	(12 marks)	
	b. Evaluate the importance of shedding and regeneration of tails in reptiles such as geckos			
		skinks and lizards	(8 marks)	
			,	
	11. Analyze the various features considered as unique in amphibians but are not seen in bony fish.			
			(20 marks)	
12. Giving examples, describe distinguishing characteristics of fishes belonging to the two groups;				
		Actinopterygii and Sarcopterygii.	(20 marks)	
13. Describe birds under the following headings:				
		a. Feather care	(10 marks)	
		b. Communication	(10 marks)	