

# JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTURIAL SCIENCES

### UNIVERSITY SPECIAL EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES

#### FIRST YEAR SPECIAL EXAMS 2020/2021 ACADEMIC YEAR

#### MAIN CAMPUS - REGULAR

COURSE CODE:	SBB 1104
COURSE TITLE:	VERTEBRATE ZOOLOGY
EXAM VENUE:	
DATE:	EXAM SESSION:
TIME: 2 HOURS	

**Instructions:** 

- 1. Answer ALL questions in Section A and Any two questions in Section B
- 2. Candidates are advised not to write on question paper
- 3. Candidates must hand in their answer booklets to the invigilator

## SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1.	Outline three distinguishing characteristics of phylum Chordata	(3 marks)
2.	Describe three features of amniotes	(3 marks)
3.	List three systems used in the classification of vertebrates	(3 marks)
4.	Explain the importance of binomial nomenclature of vertebrate	(3 marks)
5.	State the major distinguishing feature of craniates and name two examplements	ples of such (3 marks)
6.	Name three classes of lower vertebrates/chordates and give an example of	each (3 marks)
7.	Name three vestigial structures found in living vertebrates	(3 marks)
8.	Explain why reptiles are more adapted to terrestrial existence than amphib	ians (3 marks)
9.	Describe three characteristic differences between human brain and th vertebrates	nat of other (3 marks).
10	State three distinctive characteristic differences between Chondric Osteichthyes	hthyes and (3 marks)
	SECTION B: ESSAY QUESTIONS (40 MARKS)	
11. D	escribe distinguishing and general characteristics of vertebrates	(20 marks)
12. D	escribe characteristics of different subclasses in the class Mammalia	(20 marks)
13. Discuss how birds are adapted to flight		(20 marks)
14. Discuss features that adapt fishes to locomotion in different aquatic environments		
		(20 marks)