

### **FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES**

### **DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES**

QUALIFICATION: BACHELOR OF NATURAL RESOURCES MANAGEMENT (NATURE CONSERVATION)			
QUALIFICATION CODE: 07BNTC	LEVEL: 6		
COURSE CODE: ALS610S	COURSE NAME: Animal studies 2		
DATE: July 2019			
DURATION: 3 HOURS	MARKS: 150		

SUPPLEMENTARY / SECOND OPPORTUNITY EXAMINATION QUESTION PAPER					
EXAMINER(S)	Mr R. Kavari				
	,				
MODERATOR:	Ms L. Theron				

	INSTRUCTIONS	
1.	Answer ALL the questions.	
2.	Write clearly and neatly.	
3.	Number the answers clearly.	

## PERMISSIBLE MATERIALS

- 1. Examination question paper
- 2. Answering book

THIS QUESTION PAPER CONSISTS OF 5 PAGES (Including this front page)

## SECTION A

## (Terminology)

## QUESTION 1

Give t	the correct scientific term for each of the following ethological descriptions.	[10]
1.1	A group of females that is defended by a territorial male against other males, mainly for mating rights etc. zebra.	
1.2	A young/off-spring of a warthog.	
1.3	The behaviour of male birds and other animals aimed at attracting a mate.	
1.4	Distance to which a threatened animal will allow a predator to come before it starts	
	running. (2 words)	
1.5	A periodic condition in bull (male) elephants; characterized by highly aggressive	
1.0	behaviour and accompanied by a large rise in reproductive hormones.	
1.6	A group of females rearing young ones. E.g. Aepyceros melampus.	
1.7	Antelopes that have a tendency of concealing their calves/ and or lambs from time	
1.,	of birth till about 2 months.	
1.8	Social grooming between members of the same species.	
1.9	The occurrence of two clearly different phenotypes existing in the same population	
1.5	of a species.	
1.10	The biological study of the geographic distribution of animals, especially the causes	
	and effects of such distribution.	
QUES	TION 2	
Cive	the establishment of each of the following managed (or allies as wet)	(5)
2.1	the scientific name of each of the following mammals (spelling counts).  Plains zebra	(5)
2.2	Black-faced impala	
2.3	Cheetah	
2.4	Spotted Hyaena	
2.5	Steenbok	
2.5	Steenbox	
Give t	the supercohort and order to which each of the following mammals belongs (spelling	(5)
count		(5)
2.6	Procavia capensis	
2.7	Madoqua kirkii	
2.8	Ceratotherium simum	
2.9	Papio ursinus ursinus	
2.10	Orycteropus afer	[10]
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QUES	TION 3	
Make	use of appropriate examples to explain each of the following terms.	[10]
3.1	Rut	
3.2	Flehmen response	
3.3	Home range	

- 3.4 Hibernation
- 3.5 Matriarchal society

# SUBTOTAL [30]

# **SECTION B**

(Ethology)

## **QUESTION 4**

4.1	Use a realistic example of mammal to explain the 4 aspects that explain why animals behave in a particular way at a particular time.	(12)		
4.2	Name two matriarchal mammals studied and describe the social structure, including hierarchy in each.	(8)		
4.3	Describe the fleeing posture of warthogs.	(2)		
4.4	Distinguish between sedentary and migratory using examples discussed in class. Also explain how this affects parent/offspring behaviour.	(8)		
4.5	The most commonly observed social interaction between giraffes is a behaviour			
4.5	known as "necking". Briefly describe this social interaction.	[34]		
QUESTION 5 Provide 7 clear behavioural differences between a black rhino and a white rhino.				
QUESTION 6				
6.1	Explain the behaviour associated exclusively with ruminants.	(6)		
6.2	Discuss one disadvantage of ruminant digestion.	(1)		
6.3	Explain (with an example) a solitary/non-territorial social organization found in Bovidae.	(2)		
		[9]		

### **QUESTION 7**

9.2

7.1 Compare the hunting strategies of Acinonyx jubatus and Lycaon pictus by pointing (10)out the similarities and differences. 7.2 When is the Aardvark, Orycteropus afer, usually active and how is it adapted to its (4)[14] SUBTOTAL [71] SECTION C (Adaptations) **QUESTION 8** 8.1 Discuss the criteria that will determine how well a population is adapted to new conditions at (6)any given time. 8.2 You are working in an Animal Factory. You were given the opportunity to design a very welladapted scansorial animal. Provide 8 characteristics that you would put into your design and explain the need/importance for each characteristic. (16)[22] **QUESTION 9** 9.1 Define adaptive convergence and make use of (a) Oceanic vertebrates and (b) Aquatic (9)vertebrates to demonstrate it.

SUBTOTAL [34]

Explain how you can use skull morphology to determine the feeding type/habit of an animal.

(3)

[12]

#### **SECTION D**

(Zoogeography)

### **QUESTION 10**

(3)10.1 Name all the zoogeographic regions. 10.2 According to scientists South America, Africa, India, Australia and Antarctica were formerly connected to each other, forming a large land mass known as Gondwanaland. (8)On what evidences do they base these allegations? (4)10.3 State in which zoo-geographic region each of the following animals occur naturally: (a) Anteater (b) Cassowaries (c) Caribou (d) Orangutan [15] SUBTOTAL [15]

**TOTAL [150]**