

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

SCHOOL OF AGRICULTURE AND NATURAL RESOURCE SCIENCES

DEPARTMENT OF NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF NATURAL RESOURCES MANAGEMENT		
QUALIFICATION CODE: 07BNRS	LEVEL: 7	
COURSE CODE: ZLY621S	COURSE NAME: ZOOLOGY 2	
DATE: JANUARY 2025		
DURATION: 3 HOURS	MARKS: 150	

SE	COND OPPORTUNITY EXAMINATION QUESTION PAPER
EXAMINER(S)	Mrs. Gertruida Louisa Theron
MODERATOR:	Mr. Jeremia Amutenya

	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
- 3. Calculator and Ruler

THIS QUESTION PAPER CONSISTS OF 3 PAGES (Including this front page)

[30 MARKS] **SECTION A: SHORT QUESTIONS (Terminology) QUESTION 1** Give the correct scientific term for each of the following ethological terms. [10] 1.1 Active at dusk and dawn. 1.2 A group of females guarded by one male who defends his mating rights. 1.3 Grimace or facial expression of males when testing chemical signals to see if females are sexually receptive. 1.4 Social structure that ranks animals in order of dominance, also called pecking order. 1.5 The collective noun for a group of Warthogs or any Suidae. 1.6 A process of removing or weeding out those less fit to survive the challenges of their environment. 1.7 All females in a herd breed or have their young at the same time or within a short period. 1.8 A social status that allows privileged access to resources such as food or females because subordinate animals give way to the ones with higher status. 1.9 Adaptive convergence of closely related forms. 1.10 Populations that meet in a narrow geographic zone and retain distinctness. **QUESTION 2** 2.1 Name the Sub-class that all Namibian mammals belong to. (1)2.2 Give the super cohort and order to which each of the following mammals belong: (Spelling does count) (6)a) Aardvark b) Bushbaby c) Klipspringer 2.3 Give the scientific name of each of the following mammals. (Spelling does count). (3)a) Black rhinoceros b) Warthog c) African buffalo [10] **QUESTION 3** Distinguish between the following: 3.1 "Conditioning" and "Habituation" (2)"Arena" and "Aggregation" 3.2 (2)"Instinctive" and "Learned" behaviour 3.3 (2)3.4 "Scansorial" and "fossorial" animals. (2)3.5 "Matriarchy" and "Oligarchy" (2)[10] SECTION B: LONGER QUESTIONS (Ethology) [60 MARKS] **QUESTION 4** 4.1 Discuss the feeding behaviour for each of the following Orders. (9)Tubilidentata Hyracoidea

Distinguish, using examples, between sedentary bovids and migratory bovids. Also,

(6) [**15**]

explain the influence/effect that this has on parent/offspring behaviour.

Proboscidae

4.2

QUESTION 5 Briefly explain to Conservancy members the following terms as they relate to Giraffa camelopardalis. Social organization. (4)5.1 5.2 Anti-predator behaviour. (2)5.3 Feeding behaviour. (6)[12] **QUESTION 6** In Tabular form, differentiate between Black and White Rhino in terms of their appearance (6) and behaviour (6). [12] **OUESTION 7** 7.1 Name and explain 4 basic methods of anti-predator behaviour used by primates. (8)7.2 Discuss the importance of grooming for the Chacma baboon. (6)[14] **QUESTION 8** Discuss the anti-predator behaviour of Smutsia temminckii. (4)8.2 (3) Describe the social organisation of hippos. [7] **SECTION C: LONGER QUESTIONS (Adaptations)** [45 MARKS] **QUESTION 9** The food of vertebrates varies greatly and so do the ways that they use to locate/access their food. Explain 10 different methods used by various vertebrates. Make sure you discussed TEN <u>different</u> methods and provide examples of animals using each method. USE PROPER SENTENCES. [20] **QUESTION 10** Explain 5 different ways of digging found in animals. Provide one example (for each method) of an animal using it. [15] **QUESTION 11** Compare the structural adaptations of cursors to that of saltators. Provide one mammalian example for each lifestyle. [10] **SECTION D: LONGER QUESTIONS (Zoogeography)** [15 MARKS] **QUESTION 12** Explain 7 possible ways in which animals can become dispersed. (7)What evidence is there today for the former connection of the continents? (8)[15]