⊓AMIBIA U⊓IVERSITY
OF SCIE⊓CE A⊓D TECH⊓OLOGY

Faculty of Natural   **Resources and Spatial Sciences**

Department Natural Resources and Agricultural Sciences

QUALIFICATION: Bachelor of Natural Resource Management (Nature Conservation)	
QUALIFICATION CODE: 07BNTC	**LEVEL:** 6
COURSE: Natural Resource Management 1	**COURSE CODE:** NRM612S
DATE: July 2019	**SESSION:** 08h00
DURATION: 3 (three) hours	**MARKS:** 150

SUPPLEMENTARY/ SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Ms. E. N. Nghalipo
MODERATOR:	Mr. R. Kavari

THIS QUESTION PAPER CONSISTS OF 2 PAGES
(Excluding this front page)

INSTRUCTIONS
1. Answer all eleven (11) questions 2. Read all questions carefully before answering 3. Number your answers clearly 4. Make sure your student number appears on the answering script

Question 6 [10]

6.1 Explain the principles when setting a basic Stocking Rate for an area. (8)

6.2 What can be concluded regarding the grazing status of a pasture if you find a lot of? (2)
(a) Decreaser grasses
(b) Increaser I grasses

Question 7 [20]

7.1 Explain why it is important to carefully consider the placement and maintenance of water (10)
points on a game farm / park (from an animal and veld management perspective).

7.2 Explain the factors that determine animals' habitat preference. (10)

Question 8 [12]
On a farm that is 1000ha in size, a road strip count has been conducted. Three strips have been set
through the farm, and the following data has been obtained:
Strip 1: 4 km long, msv = 120 m, animals observed: 8 springbok, 6 kudu.
Strip 2: 5 km long, msv = 100 m, animals observed: 5 zebra, 2 giraffe.
Strip 3: 4 km long, msv = 110 m, animals observed: 5 kudu, 5 wildebeest

8.1 Estimate the number of springbok on the farm. Show your calculations. (3)

8.2 Estimate the number of zebra and giraffe on the farm. Show your calculations. (6)

8.3 Estimate the number of kudu on the farm. Show your calculations. (3)

Question 9 [12]
9.1 Fire behaviour is influenced by different factors, mention and briefly explain how these (6)
factors influence fire behaviour.

9.2 Describe the factors that determines vegetation recovery after fire. (6)

Question 10 [10]
Discuss the use of livestock as a tool for rangeland management in the context of Holistic
Resource Management.

Question 11 [12]
Compare the three methods (drive count, road count and aerial survey) used to count game. (12)
Answer the question by referring to an example where each would be most suitable.