



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

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: 7
COURSE CODE: NCT520S	COURSE NAME: NATURE CONSERVATION TECHNIQUES 2
DATE: January 2019	
DURATION: 3 HOURS	MARKS: 150

SECOND OPORTUNITY/SUPPLEMENTARY EXAMINATION QUESTION PAPER	
EXAMINER	Mr. W.F. Adank
MODERATOR:	Mr. M. Britz

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL the questions.2. Write clearly and neatly.3. Number the answers clearly.

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

SECTION A – PROBLEM ANIMAL CONTROL

QUESTION 1

You have been invited to a farmers meeting where the farmers want you to provide and explain the general guidelines to be kept in mind when building cage traps for catching both leopard and cheetah.

What guidelines with reasons will you provide them? **(19)**

QUESTION 2

Farmers in your area have problems with leopard. Cage traps are unpractical to use as the area is very mountainous, and the only alternative is to use foothold gin-traps fitted with a chain that can be staked to the ground. In order to make sure that the farmers will only use the best kind of traps and chains, you are advising them on aspects to be considered when purchasing these to ensure their effectiveness.

Provide the guidelines and explain why they should adhere to them. **9 x 2 = (18)**

QUESTION 3

Some farmers are experiencing predation problems and are unable to determine what predator is responsible for their small stock losses. You are of the opinion that it might be a caracal that is responsible.

What aspects/factors will indicate to you that it is indeed a caracal? **(12)**

Sub Total: [49]

SECTION B – TROPHIES AND SKINNING

QUESTION 1

It is 09:00: You are in a very remote area next to the Kavango River. A trophy hunter has just shot and killed a lechwe ram. The transport vehicle, which is fully equipped, has broken down and your skinner was sent to fetch a backup vehicle which you expect to arrive only after 13:00.

Fully describe what you should do and what basic incisions you will make, to ensure a good quality cape for a shoulder mount. **(10)**

QUESTION 2

You are requested by your employer (M.E.T.) to provide guidelines on the skinning and preserving of hippo and elephant feet prior to delivery at a taxidermist, thus ensuring the best possible product.

What will you include in these guidelines? (12)

Sub-total: [22]

SECTION C – SOIL EROSION

QUESTION 1

It is known that rainfall characteristics have an effect on erosivity of soils. List the five characteristics. (5)

QUESTION 2

Write short explanatory notes on the basic requirements to keep in mind when planning stock watering installations in order to mitigate soil erosion. (12)

QUESTION3

You are considering building small check dams and gabions in gullies and streamlets to prevent further erosion on the ranch where you are working. As soil will be the main material used you need to inspect it to determine its suitability for these constructions. Name and explain soil what you will be looking for to ensure the best possible results. (11)

Sub-total: [28]

SECTION D – FIRE FIGHTING

QUESTION 1

Define the definition belt: (7)

QUESTION 2

You have been appointed on a ranch where there are no fire belts. Your task is to determine where fire belts should be placed.

What main points should you consider? (6)

QUESTION 3

Name and fully discuss the method of firefighting/control that should be used when the direct method and parallel method of firefighting cannot be used or has failed. (7)

QUESTION 4

List the main after-fire procedures/tasks. (7)

Sub-total: [27]

SECTION E – GAME COUNTS

QUESTION 1

Fully explain the *drive count* method as used on relatively small wildlife ranches. (14)

QUESTION 2

Fully explain/discuss the *field strip count* method. (10)

Sub-total: [24]

TOTAL [150]