



**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: NRM720S	COURSE NAME: Natural Resource Management 2
DATE: January 2019	
DURATION: 3 HOURS	MARKS: 150

SECOND OPPORTUNITY QUESTION PAPER	
EXAMINER(S)	Dr. M.L. Hauptfleisch
MODERATOR:	Dr. M. Bilton

INSTRUCTIONS
1. A calculator is allowed 2. Marks will be subtracted for poor sentence structure and grammar.

THIS QUESTION PAPER CONSISTS OF 4 PAGES (Including this front page)

Question 1:

Describe the following terms fully using an example where appropriate:

Maximum (3) marks per term

1.1 Root cause analysis

1.2 Hypothesis

1.3 Remote sensing

1.4 Species richness

1.5 Trophy hunting

1.6 Browse unit

1.7 Faecal sample count

1.8 Camera trap

1.9 Bush thickening

1.10 Natural resource management

[30]

Question 2:

2.1 Discuss the value of scientific research for the management of natural resources in a national park.

(5)

2.2. You have been asked to scientifically investigate reasons for the disappearance of kiaat (*Pterocarpus angolensis*) trees in the Zambezi Region. Describe step by step (using recognized scientific method, and a schematic diagram) how you would investigate this problem.

(12)

2.3 How will you communicate the findings of your research?

(5)

[23]

Question 3:

Discuss the different types of herbivores that utilize vegetation on a game farm, and what the importance and or effect each has on the vegetation.

[15]

Question 4:

4.1 Discuss the negative effects of climate change on wildlife.

(10)

4.2 Clearly outline any four co-benefits of the Reduced Emissions from Deforestation and forest Degradation plus (REDD+) mechanism.

[18]

Question 5:

Bush encroachment is a natural phenomenon as well as a man-made phenomenon.

5.1 Discuss the above statement.

(10)

5.2 Is bush encroachment a problem throughout Namibia? Why or why not?

(4)

5.3 Critically analyse one method which is being used to mitigate bush encroachment.

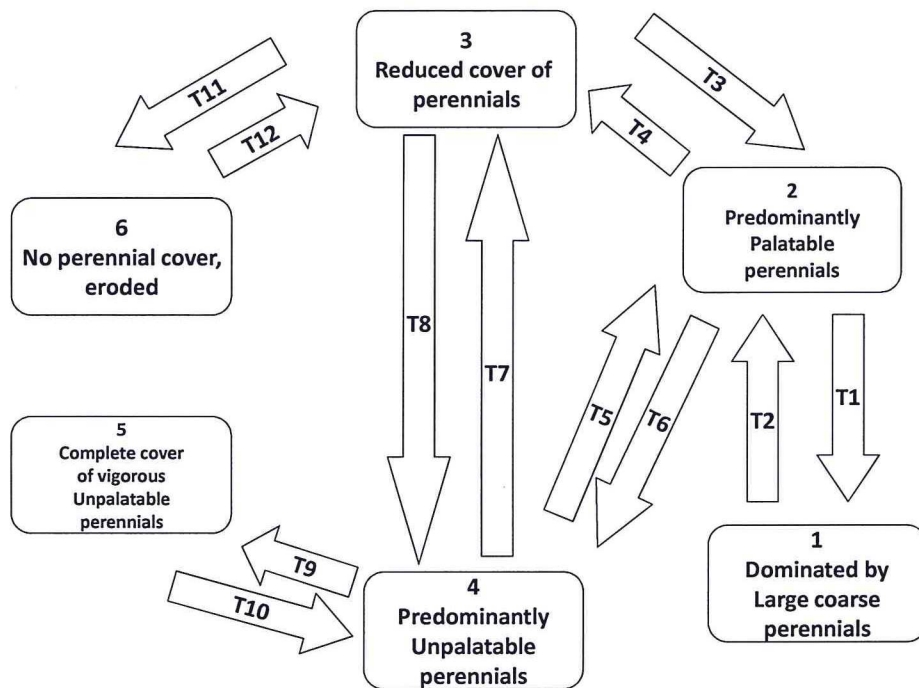
(6)

[20]

Question 6:

6.1 Explain the meaning of the diagram below (include one example).

(5)



6.2 To change the state of the veld from State 6 to State 2, what transitions need to happen? Explain.

(5)

6.3 How can the diagram be used to guide the rehabilitation of a waste rock dump at B2Gold Mine in Otjozondjupa?

(5)

[15]

Question 7:

Human wildlife conflict in Namibia takes many forms. Discuss two specific human-wildlife conflict type which threaten human livelihoods and wildlife populations, as well as how each is, and should be mitigated.

[20]

Question 8:

How does this course help to prepare you for your future in the workplace?

[9]

Total: 150