



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF AGRICULTURE	
QUALIFICATION CODE: 07BAGR	LEVEL: 7
COURSE CODE: ALM 621S	COURSE NAME: Agricultural Land Management
SESSION: NOVEMBER 2019	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Alexander Meroro
MODERATOR:	Dr. Gabriel Hangara

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

PERMISSIBLE MATERIALS

1. All written work MUST be done in blue or black ink
2. No books, notes and other additional aids are allowed

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

Question 1

Describe the goal of Conservation Agriculture (CA) (8)

Question 2 :

Explain the objectives of CA (Conservation Agriculture) (4)

Question 3 :

Define Tillage (4)

Question: 4

Explain the advantages of conservation agriculture (4)

Question: 5

List eight disadvantages of traditional tillage (8)

Question 6 :

6.1. Describe the difference between primary and secondary tillage (7)

6.2. Ms Elise Hasholo, a farmer in the northern Communal area of Ohangwena plan to switch from animal traction to mechanized power. Explain to her the possible disadvantages in making such a switch or move. (5)

Question 7 :

Which three basic landscapes elements are needed for rainwater harvesting? (3)

Question 8:

Two farmers, Justine Totadime and Beatrix Alweendo want to embark on small scale vegetable irrigation project. Explain to them the factors to be considered when choosing an irrigation method (10)

Question 9 :

(a) Briefly describe the three forms of water erosion in Namibia (6)

- (b) Mr. and Mrs. Samora has a problem with wind erosion and asks your advice on measures to control it. What advice will you give them? (8)
- (c) Explain how salination harms the soil and the plants? (6)
- (d) Explain the relationship between soil particles size and erosion by wind. (2)

Question 10 :

- (a) Explain why ecological zone map that show land suitability are only a guideline and not fixed rule (6)
- (b) List the principles of permaculture design (13)
- (c) Describe the principal constraints to pasture and fodder production in Namibia (6)