

NAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF AGRIC	CULTURE
QUALIFICATION CODE: 07BAGR	LEVEL: 7
COURSE CODE: AAG610S	COURSE NAME: AGRONOMY
SESSION: JUNE 2019	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER			
EXAMINER(S)	MR. C. L. Akashambatwa		
MODERATOR:	DR F. N. MWAZI		

INSTRUCTIONS		
1.	Answer ALL the questions.	
2.	Write clearly and neatly.	
3.	Number the answers clearly.	
5.	Number the answers clearly.	

PERMISSIBLE MATERIALS

1. Calculator

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

Question 1			
1.1. Define the term Agronomy	[2]		
1.2. Name the four categories of crops found under Agronomy, and list two examples			
crops under each category	[8]		
1.3. Why is climate knowledge important in Agronomy sphere?	[2]		
1.4. Maize is a "controlled crop in Namibia" what does it means?	[4]		
1.5. A potential investor seeks your guidance on establishing a 20-thousand-hectare farm to			
produce maize in Arandis town of Namibia. What will be your advice to the investor?	[6]		
Question 2			
2.1. Fully describe pollination and fertilization in Zea mays	[5]		
2.2. Explain the different tillage practices.	[6]		
2.3. Fully explain tillage implements used for agronomic purposes and their purposes.	[4]		
2.4. Explain why crop density is important for maize crop and describe acceptable de	ensity		
under dryland cultivation.	[3]		
2.5. Pearl Millet is of economic value to Namibia, discuss the new varieties developed	after		
independence and list the characteristics obtained with the improved varieties	[6]		
Question 3			
3.1. Discuss the crop growth requirements of Sorghum; take into consideration all fa	ctors		
that are required for successful growth.	[10]		
3.2. Name and discuss various ways of obtaining nitrogen requirement in a maize field.	[8]		
3.3. Fully discuss the climatic requirements of cowpeas.	[10]		
3.4. Briefly explain the economic importance of sunflower.	[6]		
3.5. Why is Pearl millet widely adapted to extreme environments?	[3]		
Question 4			
4.1. Discuss briefly the harvesting of field beans.	[5]		
4.2. Describe the main insect attacking sorghum and how it can be controlled.	[5]		
4.3. Briefly describe why planting date is so important in crop production.	[4]		
4.4. Describe water requirement of Zea mays?	[1]		

[END]