

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF SCIENCE IN HORTICULTURE		
QUALIFICATION CODE: 07BHOR	LEVEL: 7	
COURSE CODE: AVP720S	COURSE NAME: APPLIED VEGETABLE PRODUCTION	
DATE: NOVEMBER 2022		
DURATION: 3 HOURS	MARKS: 100	

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER			
EXAMINER(S)	Dr Edgar Mowa		
MODERATOR:	Dr Fidelis Mwazi		

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

PERMISSIBLE MATERIALS

- 1. Examination question paper
- 2. Answering book

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

	Differentiate between the three (3) major areas of ergonomics and highlight how the agriculture by giving examples.	y apply (3)
2.	Mashare Irrigation scheme has encountered <i>Salmonella</i> in their vegetable proadvice the Mashare Irrigation scheme Management on possible sources of the bacter why it is important for humans not to consume contaminated produce from <i>Salmone</i>	ria and
3.	Define the following terminologies: (a) Processed vegetables (b) Vegetable irradiation (c) Integrated Crop Management (d) Ergonomics	(4)
4.	Discuss the purpose of DNA sequencing and give three (3) current applications of sequencing in Namibia.	of DNA (4)
5.	Describe the two (2) main strategies to prevent hazardous levels of bacontamination in fresh produce.	(2)
6.	Name a prominent pathogenic parasite associated with fresh produce and disc characteristics and its effect on human health.	(6)
7.	Name a bacterial pathogen of your choice associated with fresh produce and disc characteristics and its effect on human health.	cuss its (6)
8.	You are the scientific technician advising all Green-schemes on safety of their prowhich have been failing standard tests lately. What are you going to point out as possurces of on-farm contamination?	
9.	You are consulted as a local scientist to provide technical support on a new multi-dollar agricultural project for Namibia;	million
	(a) What would you advice the project team leadership in terms of Intervegetable production management in order to minimize environmental im	-
	(c) As part of processing harvested produce from this project, how will you p the following post-harvest; Tomato, cabbage, maize, potatoes, carrots, peas, corn, beetroot, cucumbers?	(7) rocess beans, (8)
<i>10.</i> 11.	You have been assigned to appear on National television to advice the Namibian that is reluctant to use vegetable derived natural products, which key benefits are you	

. . .

- 12. Discuss the five (5) best practices to prevent microbial contamination while growing produce. (10)
- 13. Discuss the three (3) main sources of food safety hazards at production and strategies to minimize risk. (15)