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Tonga National Form Seven Certificate AGRICULTURE 2016

QUESTION and ANSWER BOOKLET

Time allowed: Three Hours

INSTRUCTIONS

- 1. Write your **Student Enrolment Number (SEN)** on the top right hand corner of this booklet.
- 2. Answer ALL QUESTIONS. Write your answers in the spaces provided in this booklet.
- 3. If you need more space for answers, ask the Supervisor for extra paper. Write your SEN on all extra sheets used and clearly number the questions. Attach the extra sheets at the appropriate places in this booklet.

TOPICS	Pages	Time (mins)	Total
SECTION A PRIMARY PRODUCTION	2-3	36	14
SECTION B SUSTAINABLE PRIMARY PRODUCTION	4-7	54	18
SECTION C PRODUCTION MANAGEMENT	8-13	90	26
SECTION D POST HARVEST	14-15	31	12
TOTAL	15 pages	180 mins	70

Check that this booklet contains pages 2-15 in the correct order and that none of these pages is blank

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION

SECTION A: PRIMARY PRODUCTION

QUESTION ONE

Name **ONE** (1) Primary Product produced locally for export, and use it to answer the questions that follow. It is advised to read the questions before you select the Primary product to use. Give the name of the country this product is exported to.

in	nary Product:		
ou	ntry of Import:		
	Identify the consumer (of the named country of Export) preference for your selected primary product.		
	your selected primary product.	Skill le	vel 1
		_ 1	
		0	
		NR	
	Name a local market opportunity available for the reject surplus product.		
	Production	Skill le	vel 1
		1	
		0	
		NR	
	Explain each of the above named local market opportunities for the surplus product.		
		Skill le	vel 3
		— 3	
		2	
		1	
		0	
		NR	
		Skill le	vel 2
	Briefly describe the effect of market competition on the price of the named product.	2	
		1	
		0	
		NR	

QUESTION TWO

Kava price had increased lately across Tonga. Use the current situation of Kava in Tonga to answer the questions that follow;

Identify the major market control that causes the ever increasing prices of the ever increasing	Skill le	Skill level 1	
of kava.	1		
	0		
	NR		
Explain how the market control as answered above, affects kava production in both export and local market.			
	Skill le	vel 3	
	3		
	2		
	1		
	0		
	NR		
	Skill le	vel 1	
Identify how a kava producer can manipulate the kava market.	1	Т	
	0		
	NR		
Describe the importance of bilateral trade agreement on the export of kava.	f 		
	Skill le	vel 2	
	2		
	1		
	0		
	ND		

SECTION B: SUSTAINABLE PRIMARY PRODUCTION

QUESTION THREE

Name a crop or animal that is grown or raised for local sales or for export, and use it to answer the questions that follow.

Cro	p or animal Name:		
a.	Identify TWO (2) management practices that are used to sustain the production of your named crop/animal.		
	production of your mained crop, animal.	Skill le	vel 1
		1	
		0	
		NR	
b.	Describe how the management practices named above, are done, to ensure the production is sustainable.		
		Skill le	evel 2
		2	
		1	
		0	
		NR	
c.	Describe how your selected product, named above is established.	_	
		Skill le	vel 2
		_ 2	
		1	
		0	
		NR	

OUESTION FOUR

£				
1.		e ONE (1) animal primary product you have studied this year, then t to answer the questions that follow.		
	Nam	e of animal Primary product:	_	
	a.	Select ONE (1) of the following management techniques as listed below, then explain its advantages in sustaining the production of the named primary product.		
		 Culling Stocking Rate Use of feed supplement 		
			_	
			-	
			-	
			Skill lev	vel 3
			- 3	
			_ 2	
			- 1 0	
			- NR	
2.		a primary crop product you have studied, to answer the following tions.		
	Nam	e of crop product:	-	
	a.	There are different methods of controlling weeds, which helps to maintain high production.		
		i. Name the dominant weed that is a major problem to the	Skill lev	vel 1
		named crop product.	1	

NR

ii.

ii.	Describe one effective method of controlling the named weed and it's status in sustaining production as long term.	,	
		Skill lev	vel 2
		2	

1 0 NR

3.	Describe the advantages of using Integrated Pest Management in controlling the major pest of your named crop product.	-	
		Skill le	vel 2
		- 2	
		. 1	
		0	
		NR	

QUESTION FIVE

Listed below are the Agricultural issues that can have negative and/ or positive impacts on local primary products produced.

Select **ONE** (1) agricultural issue from the list in the box below, then refer to a Primary product (plant or animal) that you have studied this year to answer the questions that follow.

- Organic Husbandry
- Invasive species
- Introduction of new species

	Explain the effect of the selected global issue on the primary product you studied. You should mention whether it has positive or negative effect, u specific examples.	
		Skill le
		3
		2
		. 1
		. 0
		NR
	Pollution is another global agricultural issue that affects agricultural production. Describe the long term effect of pollution on the primary product you studied.	
		Skill le
		. 2
		. 1
		0
•		

SECTION C: PRODUCTION MANAGEMENT

QUESTION SIX	:
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	me any crop or animal you have studied this year, then refer to it in swering the questions that follow:		
Na	me of Crop or Animal:		
a.	Select the TWO (2) most important operations in the production of your selected crop or animal as named above, from site selection to harvesting and storage. Describe the importance of these operation and how this is done effectively to get the demanded attributes of your named product.)	
		Skill le	vel 2
	i	2	
		1	
		0	
		NR	
		Skill le	vel 2
	ii	2	
		1	
		0	
		NR	
op	eplain how to effectively manipulate one of the selected production erations in a. above to produce better quality product of your selected op or animal.		
		Skill le	vel 3
		3	
		2	
_		1	
		0 ND	
		NR	

Explain a good preparation method for this product to be more attractive in the market.		
	_	
	Skill le	vel 3
	- 3	T
	_ 2	
	_ 1	
	0	
	NR	

QUESTION SEVEN

Read the following questions, then name a primary product studied this year, and use it to answer the questions that follow.

Nam	e of primary product:		
a.	Identify the consumers' preferences for the specific market of your primary product named above.		
	P	Skill lev	vel 1
		1	
		0	
		NR	
b.	Explain the importance of cost effectiveness in primary product named in a. above use appropriate figures and unit to illustrate your answer.		
		Skill le	vel 3
		3	
		. 2	
		. 1	
		0	
		NR	

	T 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4		
•			
•	Capital		
•	Yield		
•	Market demand		

NR

QUESTION EIGHT

You can refer to your selected primary product in ${\bf QUESTION\ SEVEN}$ to answer the following questions.

of the primary product.	Ski
	1
	C
	N
Describe the concept of profit and yield maximization primary product.	n in your selected
	Ski
	2
	1
	C
	primary product,
	primary product,
	primary product,
	primary product, Ski
Explain how production manipulation of the named can affect the maximization of yield and profit.	primary product, Ski

List TWO (2) items of the input for your selected product that will be classified in the Variable cost, when recording the production cost.		
	Skill le	evel 2
	- 2	
	. 1	
	0	
	NR	

SECTION D: POST HARVEST

QUESTION 9

You can refer to the primary product named in **QUESTION 7**, when answering the following questions.

	Skill le	vel
lentify the harvesting method of the named product.	1	
	0	
	NR	
	Skill le	ve
lentify the methods of postharvest treatment, of the selected product.	1	
	_ 0	
	NR	
xplain the criteria for grading of your selected product, based on ne target market.		
	-	
	- - Skill le	ve
	- Skill le	ve
		ve
	_ 3	ve
	_ 3	

Explain the effect of food safety on the marketing of your named product. Skill 3 2 1 0		
Explain the effect of food safety on the marketing of your named product. Skill 3 2 1 0 NR		
Explain the effect of food safety on the marketing of your named product. Skill 3 2 1 0 NR		
Explain the effect of food safety on the marketing of your named product. Skill 3 2 1 0 NR		Skill
Explain the effect of food safety on the marketing of your named product. Skill 3 2 1 0 NR		
Explain the effect of food safety on the marketing of your named product. Skill 3 2 1 0		
Explain the effect of food safety on the marketing of your named product. Skill 3 2 1 0		0
Skill 3 2 1 0		NR
2 1 0		Skill
2 1 0		
1 0		
NR		
		1
		1
Describe the appropriate method of packing your named product.	Describe the appropriate method of packing your nam	1 0 NR
Describe the appropriate method of packing your named product.	Describe the appropriate method of packing your nam	1 0 NR
Describe the appropriate method of packing your named product.	Describe the appropriate method of packing your nam	1 0 NR
Describe the appropriate method of packing your named product.	Describe the appropriate method of packing your nam	1 0 NR
	Describe the appropriate method of packing your nam	1 0 NR
	Describe the appropriate method of packing your nam	ed product. Skill 2
Skill	Describe the appropriate method of packing your nam	ed product. Skill 2 1