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	Communauté du Pacifique	EQAP		'	1	ı	1

South Pacific Form Seven Certificate AGRICULTURE 2021

QUESTION and ANSWER BOOKLET

Time allowed: Three hours

(An extra 10 minutes is allowed for reading this paper.)

INSTRUCTIONS

Write your **Student Personal Identification Number (SPIN)** in the space provided on the top right-hand corner of this page.

Answer ALL QUESTIONS. Write your answers in the spaces provided in this booklet.

If you need more space for answers, ask the Supervisor for extra paper. Write your SPIN on all extra sheets used and clearly number the questions. Attach the extra sheets to the appropriate places in this booklet.

	Skill Level & Number of Questions				
Major Learning Outcomes (Achievement Standards)	Level 1 Uni- structural	Level 2 <i>Multi-</i> structural	Level 3 Relational	Level 4 Extended Abstract	Weight/ Time
Strand 1: Primary Production Examine local and export primary production and analyse the influence of market controls.	5	2	2	0	15% 39 min
Strand 2: Sustainable Primary Production Analyse primary production practices that ensure sustainable primary production.	6	3	2	1	22% 57 min
Strand 3: Production Management Demonstrate understanding of production management of a locally produced animal primary product and a locally produced plant primary product.	4	4	3	3	33% 85 min
TOTAL	15	9	7	4	70% 180 min

Questions in this examination require you to refer to primary products from your own country.

Check that this booklet contains pages 2–19 in the correct order and that none of these pages are blank.

HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

STRAND 1: PRIMARY PRODUCTION

1.1	A proper marketing technique allows the flow of products from the supplier to the consumer.	
	State the importance of providing the appropriate transport method in the delivery of primary goods and services.	
	activety of printing germa controller	Unistructural
		1
		0
		NR
1.2	Circle the letter that represents the <u>best</u> answer.	
	Which of the following factors do farmers need to consider in securing market opportunities for their primary products?	
	A. climate	Unistructural
	B. state of technology	1
	C. type of consumers	0
	D. income of the consumers	NR
1.3a	International marketing involves the selling and buying of goods and services between countries.	
	Define bilateral trade agreement.	Unistructural
		1
		0
		NR
	Select <u>one primary product</u> (either plant or animal) that is locally produced in your country to answer question 1.3b.	
	Primary product:	
	Name of your country:	
	Specific market:	
1.3b	International trade strengthens relationships between importing and exporting countries.	
	Describe how a bilateral trade agreement has an impact on the import	
	and export of your selected primary product.	Multistructural
		2
		1
		0
		NR

1.4	State one reason for export controls on local products.	Unistro 1 0 NR	uctural
1.5	To be competitive in the world of business, farmers need to produce products that are of high quality. Explain how competition from imports influences primary production.		
		Relat	ional
		2	
		1	
		0	
		NR	

1.6	Pests and diseases affect the storage of agricultural products and reduce their shelf-life which has an impact on the selling and buying of agricultural products.		
	Define the term product storage life .	Unistr	uctural
		1	
		0	
		NR	
1.7	Import and export controls and biosecurity or quarantine regulations are part of the government's policy on international marketing.		
	Describe how these national regulations and controls affect local primary production.		
		Multistr	uctural
		2	
		1	
		0	
		NR	
1.8	During the production period, primary products change due to certain factors that affect production and the supply to the market. The market price is also affected due to less supply. Explain, with examples, one factor that causes primary products to change during the year in your community.	Polet	ional
		Relat	ional
		3	
		2	
		NR	
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STRAND 2: SUSTAINABLE PRIMARY PRODUCTION

Assessor's use only 2.1 Globally, climate change is the key issue that affects long term primary production. State **one** impact of climate change on agricultural production. Unistructural 0 NR 2.2 Circle the letter that represents the <u>best</u> answer. The application of fertilisers in the soil at a particular spot is called A. placement Unistructural 1 B. broadcasting 0 C. top dressing NR D. side dressing 2.3 Various soil conservation practices and techniques have been developed to prevent and control soil erosion on sloping land. Unistructural Identify **one** soil conservation practice farmers could use to maintain sustainable primary production on their farms. 0 NR 2.4a Genetic selection is a crucial step for animal breeders. Define the term **genetic selection**. Unistructural 1 0 NR

2.4b	The goal of dairy farmers is to increase milk production to satisfy the market demand of consumers.	
	Describe the importance of genetic selection in ensuring the improvement of milk production in the long term.	
		Multistructural
		2
		1
		0
		NR
	Use the information below to answer questions 2.5a and 2.5b.	
	The diagram below illustrates certified seeds.	
	NATURE'S WAY COOPERATIVE	
	Certified Fig. Rul Papaya Seed	
	Source: https://pacificfarmers.com/e-bulletins-june-2014/	
2.5a	State the importance of using certified seeds in primary production.	Unistructural
		1
		0
		NR

	Explain how using certified seeds can ensure that farmers get high quantity of good quality production in the long term on the farm.			
		Rei	ational	
		Rel	ational	
		3 2	ational	
		3 2 1	ational	
		3 2 1 0	ational	
		3 2 1	lational	
	Integrated Pest Management is a sustainable agricultural practice used in primary production.	3 2 1 0	ational	
l		3 2 1 0 NR		
1	in primary production.	3 2 1 0 NR		
1	in primary production.	3 2 1 0 NR		
l	in primary production.	3 2 1 0 NR	tructura	

	·	Assessor's use only
2.6b	Pests and diseases can be controlled in various ways. Describe one benefit of Integrated Pest Management in maintaining sustainable primary production on a farm.	
		Multistructural 2 1 0 NR
2.7	The photograph below shows a seed gene bank. A seed gene bank is one way of conserving genetic resources. Source: https://www.dealspwn.com/image.jpeg.	
	Describe how genetic resources are conserved for sustainable primary production.	
		Multistructural
		2
		1
		0
		NR

3	Select one crop (vegetable, fruit or root crop) or one animal produced in your country. Name an invasive species either pest, disease or weed that affects your selected crop or animal.		
	Name of plant/animal:		
	Country:		
	Invasive species:		
	Explain how the named invasive species has affected the crop/animal of commercial farmers in your country. Use examples to support your answer.		
		Relat	ional
		3	
		2	
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2.9	The Ministry of Agriculture often encourages farmers to practise organic husbandry practices.		
	Discuss one factor that influences the application of organic husbandry practices and recommend ways to maximise the benefits for the production of a local commodity.		
		Exter Abst	
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		1	
		0	
		NR	
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STRAND 3: PRODUCTION MANAGEMENT

Assessor's use only

3.1	The picture below shows a management practice carried out on a
	livestock farm.



Source: www.nationalfair.com

The management practice carried out in the above picture is ______.

- A. castration
- B. iron injection
- C. identification
- D. artificial insemination

Unistructural		
1		
0		
NR		

Select **one** Agricultural Enterprise (Plant or Animal) that you have studied to answer question 3.2.

Agricultural Enterprise:

Specific Market:

3.2 Site selection is important before an agricultural enterprise is chosen by a farmer.

State **one** factor to be considered in the selection of a suitable site for the selected agricultural enterprise.

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Unistru	ıctural
1	
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3.3	A market is a place where a seller and a buyer meet for the exchange of goods and services.		
	List two steps in the schedule of operations for the successful marketing of agricultural products.		
		Multistructura	al
		2	
		1	
		0	
		NR	
3.4	Farmers need input to produce output. Without the factors of primary production, there will be no output or product produced.		
	Identify one factor of production that is a challenge to farmers.	Unistructural	
		1	
		0	
		NR	
	Select one management practice in the schedule of operations for growing vegetables from the box below to answer question 3.5.		
	Nutrient management		
	Pest and disease control		
	Weed control		
	Management Practice:		
3.5	Describe the selected management practice as a step in the schedule of operations for growing vegetables.		
		Multistructura	al
		2	
		1	
		0	
		NR	

3.6	Maintaining the quality and quantity of primary products during post- harvest processes is crucial. Describe how proper handling of perishable primary products is done during the post-harvest process.		
		Multisti	ructural
		2	
		1	
		0	
		NR	
3.7a	Proper soil preparation is crucial in the early establishment of plants. Describe the importance of soil preparation during this stage.		
		Multisti	ructural
		2	
		1	
		0	
		NR	

3.7b	A young farmer has just bought a quarter of an acre of sloppy land with clay loam soil and has decided to practise mixed farming even though he does not know anything about soil and crops.		
	He has requested your assistance and advice.		
	Analyse the young farmer's land and advise him on land preparation techniques and the conditions that are necessary for plant growth. Make recommendations on the choice of crops to plant and farming practises to adopt or use.		
		Exter Abst	
		4	
		3	
		2	
		0	
		NR	

	Select one locally produced crop that you have studied to answer question 3.8.		
	Root Crop/Vegetable:		
3.8	Identify the type of planting material needed to plant your selected crop.	Unistr	uctural
		1	
		0	
		NR	
3. 9	Pests and diseases can cause costly and irreparable harm to livestock and crops.		
	Explain the importance of pest management in the schedule of operations.		
		Relat	ional
		3	
		2	
		1	
		0	
		NR	

	Select one locally produced plant or animal and its specific market that you have studied to answer question 3.10.		
	Plant/Animal:		
	Specific market:		
3.10	Planning is important in any type of business. Therefore, effectively following the schedule of operations on a farm is crucial for its success.		
	Explain the significance of having a schedule of operations for your selected plant or animal.		
		Relat	ional
		3	
		2	
		1	
		0	
	,	NR	

3.11	For plants to grow to their full potential, the soil must provide a satisfactory environment for plant growth. Understanding soil properties is, therefore, essential for management practices such as the addition of either organic matter or inorganic fertilisers .		
	From the two management practices highlighted above, explain which management practice would be more effective in the production of plants. Use examples to support your answer.		
		Relat	ional
		3	
	<u>- </u>	2	
		0	
		NR	

	Select a crop or livestock to answer question 3.12.		
	Crop/Livestock:		
3.12	A commercial farmer has been producing crops/livestock and is interested in exporting. The farmer lacks knowledge of marketing logistics and seeks your assistance in selling the product. Assess the farmer's situation and recommend, with justiifcation, the optimal conditions for the marketing of the selected crops/livestock product that is required as a step in the schedule of operations.		
		Exte	
		Abst 4	ract
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		2	
		1	
		0	
		NR	

3.13	The goal of a commercial farmer is to minimise production cost and maximise profit. This will only be achieved if proper planning is done.		
	Analyse how profitability in a commercial livestock farm in your community is influenced by various steps in the schedule of operations and suggest optimal conditions for profitability. Use examples to support your answer.		
		Exten Abstr	
		4	
		3	
		2	
		1	
		0	
		NR	