MARKER CODE

Pacific Community
Communauté du Pacifique

EQAP

Student Personal Identification Number						

South Pacific Form Seven Certificate

AGRICULTURE

2022

QUESTION and ANSWER BOOKLET

Time allowed: Three hours

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

INSTRUCTIONS

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

2. Answer **ALL QUESTIONS**. Write your answers in the spaces provided in this booklet. For **Multiple Choice Questions**, circle the letter that represents the **BEST** answer.

3. 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.

Major Learning Outcomes (Achievement Standards)	**Skill Level & Number of Questions**				**Weight/ Time**
	Level 1 ***Uni-structural***	**Level 2** ***Multi-structural***	**Level 3** ***Relational***	**Level 4** ***Extended Abstract***	
Strand 1: Primary Production Examine local and export primary production and analyse the influence of market controls.	5	2	2	0	15% 38 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 an 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 2–18 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

Assessor's use only

1.1	Plant breeders use different breeding methods to modify **seasonal** pollinated crops. Define **seasonality**. _____ _____ _____	**Unistructural** 1 0 NR
1.2	Which of the following statements below describes a **biosecurity regulation**? A. All plants and animal products are allowed at the port of entry. B. All items brought into the country should have an export permit. C. Households bringing their pets into a country shall leave them at the Ministry of Agriculture for fifty days. D. All items going out of the country should be accompanied by a phytosanitary certificate.	**Unistructural** 1 0 NR
1.3a	**Select <u>one primary product</u> (either plant or animal) that is locally produced in your country to answer questions 1.3a and 1.3b**. Name of your country: _____ Primary product: _____ Marketing strategies are crucial in ensuring that goods and services reach their intended recipients or customers. State the importance of having a variety of market channels in the marketing of your primary product. _____ _____ _____	**Unistructural** 1 0 NR
1.3b	Local farmers face several challenges in terms of distributing and selling their crops, including marketing. Describe the market opportunities for your selected primary product. _____ _____ _____ _____	**Multistructural** 2 1 0 NR

Assessor's use only

1.4	State **one** effect of pests and disease on the supply of primary products to the local markets. _____ _____ _____	**Unistructural** 1 0 NR
1.5	Bilateral trade agreements are important in International Marketing. Explain how the Melanesian Spearhead Groups Trade Agreement (MSGTA) affects the export of goods in your country.	**Relational** 3 2 1 0 NR

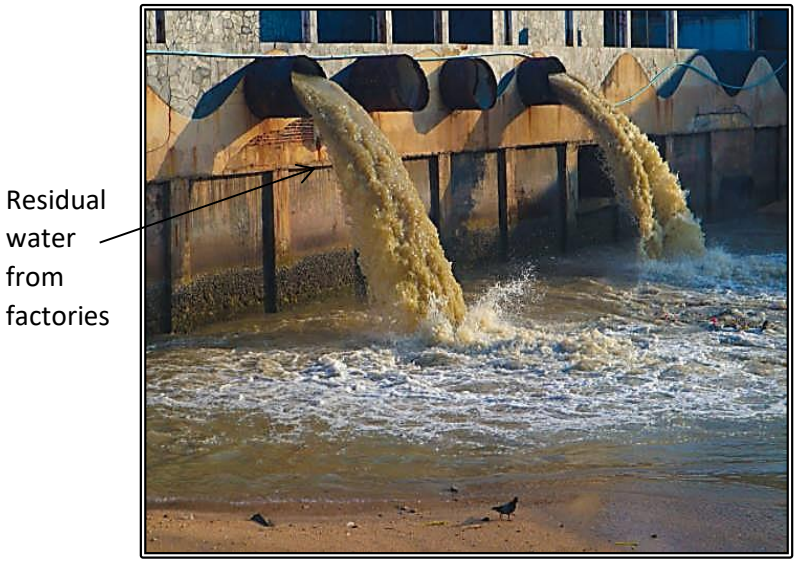
Assessor's use only

1.6	To maintain the future export market of kava in the Pacific Islands, quality standard guideline should be met by farmers for the export market. State the importance of following standard guidelines as an export control strategy for kava in the Pacific Islands. _____ _____	**Unistructural** 1 0 NR
1.7	Post-harvest handling ensures that primary products preserve their quality to secure their market price. Describe how market quality standards affect primary production. _____ _____ _____ _____ _____	**Multistructural** 2 1 0 NR
1.8	Providing proper storage facilities is a husbandry practice that farmers need to consider during the harvesting and post-harvest period. Explain how good storage facilities influence a primary product in your country. _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	**Relational** 3 2 1 0 NR

STRAND 2: SUSTAINABLE PRIMARY PRODUCTION

Assessor's use only

2.1 The diagram below illustrates pollution.



Source: https://www.istockphoto.com/search/2/image?phrase=factory+water+pollution

State **one** impact of this type of pollution on the environment.

_____

_____

_____

Unistructural	
1	
0	
NR	

2.2 The planting of crops across gentle slopes is called _____.

A. terracing
B. mulching
C. contouring
D. cover cropping

Unistructural	
1	
0	
NR	

2.3 Technology has brought a lot of changes in the agriculture industry in terms of breeding crops and livestock.

Define the term **genetic engineering**.

_____

_____

_____

_____

Unistructural	
1	
0	
NR	

Assessor's use only

2.4 Climate-smart agriculture is a national and international initiative aimed at addressing agricultural issues that affect farming.

Identify **one** key issue influencing long-term primary production in your area.

Unistructural	
1	
0	
NR	

2.5 Coconut is a potential crop for the South Pacific. The picture below illustrates a pest of coconut palms.

Describe how a coconut farmer could control the pest shown in the picture.

Source: https://www.spc.int/updates/news/2016/10/curbing-the-coconut-rhinoceros-beetle-in-the-pacific

Multistructural	
2	
1	
0	
NR	

Assessor's use only

2.6 The picture below illustrates an example of genetic resource conservation.

Source: Google Images

Name the genetic resource conservation method.

_____

_____

Unistructural	
1	
0	
NR	

2.7 The farming system that avoids the use of synthetically compounded fertilisers, pesticides, growth regulators, genetically modified organisms and livestock food additives is known as _____ farming.

A. organic
B. inorganic
C. integrated
D. conventional

Unistructural	
1	
0	
NR	

2.8 Crop rotation is regarded as a good farming practice that maintains sustainability.

Describe crop rotation as an important practice in ensuring long-term production on a farm.

_____

_____

_____

_____

_____

Multistructural	
2	
1	
0	
NR	

Assessor's use only

2.9	Environmental health, economic profitability and socio-economic equity are the goals of sustainable agriculture. Explain, using examples, how farmers practise sustainable agriculture to maintain local primary production.	**Relational** 3 2 1 0 NR
2.10	Cover crops are used as a soil management practice. Describe how cover crops help to maintain a sustainable primary production system.	**Multistructural** 2 1 0 NR

Assessor's use only

2.11 The introduction of a new species into a country can be beneficial to the country while also posing a threat to local production.

Explain, using examples, the disadvantages of introducing a new species of livestock or a new variety of crops into your country.

Relational	
3	
2	
1	
0	
NR	

Assessor's use only

2.12 Global agricultural issues such as poor farming practices and climate change have contributed to food insecurity and affected the food supply chain.

Discuss the negative impacts of **one** global agricultural issue on local production, and recommend ways to maintain food security and the flow of the food supply chain. Use examples to support your answer.

Extended Abstract	
4	
3	
2	
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STRAND 3: PRODUCTION MANAGEMENT

Assessor's use only

3.1	The picture below shows a post-harvest management practice carried out in a fruit factory. *Source: http://www.gmcti.org* The management practice carried out in the above picture is called _____. A. sorting B. chilling C. grading D. washing	**Unistructural** 1 ☐ 0 ☐ NR ☐
3.2	Meat quality is determined entirely by the technique of slaughter and the time of slaughtering. Identify the best **slaughter method** for livestock. _____ _____ _____	**Unistructural** 1 ☐ 0 ☐ NR ☐

Assessor's use only

3.3	Cultivation is the breaking down of soil into smaller pieces and is an important process in the schedule of operations. Describe a soil preparation method in the schedule of operations. _____ _____ _____ _____ _____	**Multistructural** 2 | 1 | 0 | NR |
3.4a	Traditional agriculture has given way to modern agriculture, and the government has assisted farmers by providing new technologies to improve agriculture production. Define **technology**. _____ _____ _____	**Unistructural** 1 | 0 | NR |
3.4b	Farming software and online data are modern technologies used in agriculture. Describe how these advanced technologies have assisted farmers in the production and sale of agricultural products. _____ _____ _____ _____ _____	**Multistructural** 2 | 1 | 0 | NR |
3.5	Breeding is an important management practice used in the production process of primary products. Describe the importance of a breeding technique in livestock production. _____ _____ _____ _____ _____	**Multistructural** 2 | 1 | 0 | NR |

Assessor's use only

3.6	**Water management** and **fertiliser application** are two management practices in the schedule of operations for crop production. Differentiate between the two management practices in relation to their effectiveness in crop production.	

Relational	
3	
2	
1	
0	
NR	

Assessor's use only

3.7	Capital is the most common factor of production that has an impact on other operations in a schedule of operations. Explain how the availability of capital influences the activities in the schedule of operations of the local primary product. _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	**Relational** 3 | 2 | 1 | 0 | NR |
3.8	The act of promoting and selling a product or service is known as _____. A. trading B. bartering C. marketing D. advertising	**Unistructural** 1 | 0 | NR |

Assessor's use only

3.9	**Select <u>one primary product</u> (either plant or animal) that is locally produced in your country to answer question 3.9.** Primary product: _____ Specific market: _____ List **two** activities carried out in the **processing** of your selected primary product for marketing purposes. _____ _____ _____ _____ _____	**Multistructural** 2 | 1 | 0 | NR |
3.10	Production on a farm depends entirely on the type and availability of labourers. Explain how the availability of labour affects the different activities in the schedule of operations. _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	**Relational** 3 | 2 | 1 | 0 | NR |

Assessor's use only

Select <u>one primary product</u> (either plant or animal) that is locally produced in your country to answer question 3.11.

Primary product: _____

Specific market: _____

3.11 Site selection is an important factor to consider before choosing an enterprise.

For your selected primary product, discuss the significance of site selection as a step in the schedule of operations and recommend ways of improving the selected site.

Extended Abstract	
4	
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NR	

Assessor's use only

3.12 The table below shows the establishment process in a crop or livestock enterprise.

1. Soil preparation
2. Crop preparation
3. Planting of crops
4. Rearing of livestock

Select **one** establishment process.

Discuss and recommend optimal conditions necessary for the selected establishment process in the schedule of operations.

Establishment Process: _____

Extended Abstract	
4	
3	
2	
1	
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NR	

Assessor's use only

3.13	Kava is a commercial crop in the Pacific Islands and is mostly in demand by the local community. Evaluate the impact of the market demand for kava on the activities in the schedule of operations, and recommended ways on how to constantly meet the demand.	

Extended Abstract	
4	
3	
2	
1	
0	
NR	

THE END