

basic education

Department: Basic Education **REPUBLIC OF SOUTH AFRICA**

NATIONAL SENIOR CERTIFICATE

GRADE 12



MARKS: 200

This memorandum consists of 13 pages.

Please turn over

SECTION A

QUESTION 1: SHORT QUESTIONS

1.1	Multiple-choice questions				
1.1.1	B√√	1.1.6	C√√		
1.1.2	C√√	1.1.7	A√√		
1.1.3	A√√	1.1.8	B√√		
1.1.4	D√√	1.1.9	C√√		
1.1.5	C√√	1.1.10	B√√	(10 x 2)	(20)
1.2	Matching items				
1.2.1	E√√	1.2.6	C√√		
1.2.2	Ğ√√	1.2.7	H√√		
1.2.3	B√√	1.2.8	F√√		
1.2.4	_ D √ √	1.2.9	K√√		
1.2.5		1.2.10	J√√	(10 x 2)	(20)
1.3	Term/Word(s)				
1.3.1	Marketing/Marketing plan ✓	1.3.6	Whole farm √		
1.3.2	Soil ✓	1.3.7	Elasticity <		
1.3.3	Crop rotation ✓	1.3.8	Controlled √		
1.3.4	Precision √	1.3.9	Equity scheme ✓		
1.3.5	Fixed ✓	1.3.10	Cash flow ✓	(10 x 1)	(10)

TOTAL SECTION A: 50

SECTION B

QUESTION 2: FARM PLANNING

2.1 Soil struct	ture
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2.1.1	 FOUR main factors that influence soil productivity Agricultural capacity ✓ Vulnerability of soil to change or destruct ✓ Climate ✓ 	
	 Correct management practices ✓ 	(4)
2.1.2	 Explain THREE methods to conserve soil moisture Mulching of soils to form a protective layer ✓ Covering of soils with organic material/plastic to reduce evaporation ✓ Increase the soil depth for water capillary movement of soils ✓ Planting of crops that cover soil to reduce evaporation ✓ (Any 3) 	(3)
2.2	Soil reaction	
2.2.1	 Deduce land for crop production Land B ✓ 	(1)
2.2.2	 Explain answer with TWO reasons The soil physical characteristics are better ✓ More nutrients available for the plants ✓ 	(2)
2.3	 Reasons for laying out camps To apply rotational grazing ✓ Highest possible production ✓ To protect vulnerable pastures from overgrazing ✓ To allow for stocking the veld according to the carrying capacity of the pasture ✓ To allow the livestock farmer to have different type of animals ✓ Separate different sexes/ages/groups ✓ Controlling of pests ✓ (Any 3) 	(3)
2.4	Budget	
2.4.1	 TWO Initial factors that are required for setting up a budget Land area to be planted ✓ Predicted yield / Predicted production ✓ Predicted fertility ✓ Labour costs ✓ 	

- Capital needed ✓
- Expenditure on necessities ✓

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(Any 2)

(2)

2.4.2	 Describe THREE indicators of a cash flow budget Income received for the set period of time ✓ Cost incurred for the same period of time as the income ✓ Stages of cash surplus and shortages to review availability of Amount and type of credit needed to bridge shortages ✓ Time that credit will be needed ✓ 	of capital ✓	
	 Differences to the budget to make adjustments ✓ 	(Any 3)	(3)
2.5	Safety of labourers		
2.5.1	 Safety clothing Overall/Apron/Laboratory coat ✓ Gloves ✓ Goggles ✓ Safety boots/gum boots ✓ Head covering ✓ Mouth and nose mask ✓ 	(Any 4)	(4)
2.5.2	 Impact of HIV/Aids on labour Higher absenteeism from work/More days for sick leave/ lower ✓ Low staff morale/psychological impact ✓ Tension at the work place/stigma attached to status ✓ High staff turn over ✓ More expenses for the business ✓ 	Productivity is (Any 4)	(4)
2.6	 Steps to prevent environmental pollution Apply poisons only if necessary ✓ Correct application of poisons ✓ Make use of organic methods ✓ Make use of natural enemies as far as possible ✓ Do not spill poisons on soil/in water ✓ Correct method to get rid of poison/container ✓ 	(Any 5)	(5)

2.7 **Precision farming**

2.7.1 Functions of GPS (Global Positioning System) and GIS (Geographical Information System)

Functions of GPS	Functions of GIS
 Pin points your exact location within one metre ✓ 	 Shows areas in the arable land where there are factors that limit production ✓
 Surveys the land ✓ 	 Supplying information on a piece of land ✓
 Mapping logistics ✓ 	 Producing yield maps ✓ (Any 2 comparisons)

(4)

2.7.2 Meaning of the abbreviation of 'VRT' Variable Rate Technology ✓ Function of VRT Controls the rate of application of crop inputs and tillage operations ✓

2.8 Functions of the Agri-industry

- Provides food ✓
- Provides raw materials ✓
- Provides jobs/employment opportunities ✓
- Development of secondary industry ✓
- Provides agricultural economic stability and growth ✓ (Any 3) (3)

2.9 Effect of prices on budget

2.9.1 Effect of change in prices on profit

- As the prices of necessities (inputs) rise \checkmark
- The lesser the profit of this enterprise will be \checkmark

- Higher inputs results in lower income ✓
- And less profit \checkmark

2.9.2 Graph Analysis to predict budget

- The budget for labour will stay the same/at R105 ✓ because the cost stays the same ✓
- Increase the budget on feeds by slightly/10 15 % ✓ because the cost increase slightly ✓
- The budget for fertiliser must increase a lot/20 30% ✓ because of the steep increase in fertiliser prices ✓
- The budget for the product can increase slightly/1 5% because it becomes the end of the year and prices tend to rise ✓

(8) **[50]**

(2)

(2)

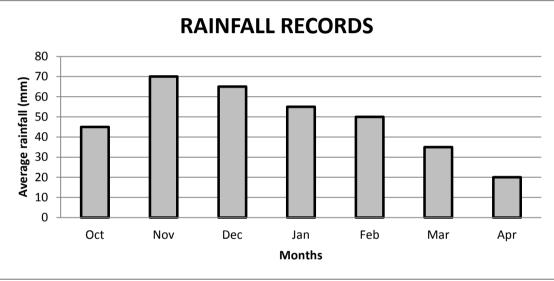
QUESTION 3: ENTREPRENEURSHIP, **RECORDING**, MARKETING AND **BUSINESS PLANNING**

- 3.1 Types of computers
 - Desktop ✓ •
 - Laptop/Notebook ✓ •
 - Palmtop ✓ •
 - Workstations ✓ •
 - Mainframe computer ✓ •
 - I-pad/tablet ✓ •
 - Cell phone ✓ •

3.2

Climatically factors

3.2.1 Graph on rainfall records



Marking rubric

- Heading ✓ •
- Correct x-axis labelled✓ •
- Correct y-axis labelled✓
- Correct bars ✓
- Bar graph√ .

(5)

3.2.2 Elements of weather measured by these instruments

NAME OF INSTRUMENT	ELEMENT OF WEATHER MEASURED	
Cup anemometer	Wind ✓	
Wet-and-dry bulb thermometer	Humidity 🗸	
Rain gauge	Rainfall 🗸	
Maximum and minimum thermometer	Day and night temperature ✓	

(4)

6

(Any 2) (2)

(2)

(2)

(3)

3.3 Allocate assets

DEPRECIABLE ASSETS	NON-DEPRECIABLE ASSETS	
Buildings ✓	Fertilisers ✓	
Machinery 🗸	Marketable livestock ✓	(

3.4 **Source documents**

3.4.1 **Deposit slip**

- The account holder's name ✓
- The account number ✓
- The branch code ✓
- Details of the person depositing the money ✓
- The amount to be deposited ✓
- Date ✓
- Signature ✓ (Any 4) (4)

3.4.2 Cheque payments

- It means that the cheque cannot be passed on to another person ✓
- Must be deposited into a bank account of the person ✓

3.5 Income statement

3.5.1 (a) **Total income**

Total income = R25 000,00 + R20 000,00 ✓
 = R45 000,00 ✓

(b) Total expenditure

Total expenditure = R2 240,00 + R1 200,00 + R1 360,00 + R1 000,00 + R2 570,00 + R3 000,00 \checkmark = R11 370,00 \checkmark (2)

3.5.2 Profit or loss

- Profit/Loss = R45 000,00 R11 370,00 ✓
 = R33 630,00 ✓
- It was a profit ✓

3.6 Marketing function of an Agribusiness

- Marketing the product at a price that will attract the customers, e.g. utility value ✓
- Continually changing the nature of the product e.g. to satisfy the needs of consumers based on feedback ✓
- Marketing in such a manner so as to obtain a greater share of the market e.g. branding ✓
- Advertising of the product must be in line with ethical advertising \checkmark (Any 3) (3)

(3)

(1)

3.7 Labour records

3.7.1 Gross wage

•

- Gross wage = 8 hrs \times R12,70 \times 5 days \checkmark + 3 hrs(1,5 \times R12,70) \checkmark •
 - = R565,15 ✓

OR

- Normal wage = $8 \text{ hrs} \times R12,70 \times 5 \text{ days}$
 - = R508,00 ✓
- Overtime = $3 hrs(1,5 \times R12,70)$ •
- = R57,15 ✓ .
- Total wage = R508,00 + R57,15•
 - = R565,15 ✓

3.7.2 Net wage

- UIF = R565,15 \times 1% \checkmark •
- = R5,65 ✓ •
- Net wage = income deductions •
- = R565,15 R5,65 R15,00 ✓ •
- = R544,50 ✓ • (4)

3.7.3 **Abbreviation UIF**

Unemployment Insurance Fund ✓ (1) •

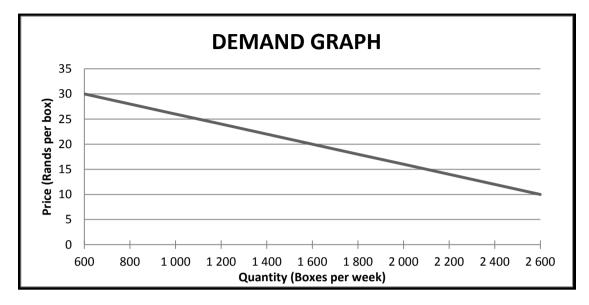
Contribution towards the UIF 3.7.4

The employer \checkmark •

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3.8 Supply and demand

3.8.1 **Demand graph**



Marking Rubric

- Heading√
- Correct x-axis√
- Labelling of x-axis with units√
- Correct y-axis ✓
- Labelling of y-axis with units √
- Line graph ✓

3.8.2 Calculate the profit

- Profit margin = R20 $\times \frac{100}{125} \checkmark$
- = $R16,00\sqrt{}$
- Profit = $(R20 R16,00) \times 1600 \checkmark OR$ Profit = $R4 \times 1600 \checkmark$
- = $R6\ 400,00\checkmark$ = $R6\ 400,00\checkmark$

(4) **[50]**

(6)

QUESTION 4: HARVESTING, PROCESSING AND MANAGEMENT

4.1 **FOUR factors to considered embarking on value adding business**

- Government policy and regulations $\sqrt{}$
- Socio-economic conditions ✓
- Level of business skills among the people ✓
- Financial support from the bank or other financial institution \checkmark
- The availability and cost of infrastructure \checkmark
- Development of the market \checkmark
- Access to appropriate technology ✓

(Any 4) (4)

4.2.1 **THREE forms of processing agricultural products**

AGRICULTURAL ENTERPRISE	DESCRIBE DIFFERENT WAYS OF PROCESSING
 Frozen/cold storage√ 	 Cooling down to a frozen product to preserve ✓
 Baking enterprise ✓ 	 Continuously making of a product like bread ✓
 Meat enterprise ✓ 	 Processing meat in another product like polony √
 Fruit enterprise ✓ 	 Juice and cold drink industry ✓ OR
	 Canning/drying of fruit √
 Dairy enterprise ✓ 	 Easier bulk handling of the products ✓ OR
	 Processing to make different products like cheeses ✓
 Snack enterprise ✓ 	 Making of products through extraction ✓
 Grain enterprise √ 	 Milling ✓
	Canning
	 Freezing ✓
	 Feeds √
 Wool/mohair enterprise ✓ 	 Textile/material √
 Oil seeds enterprise ✓ 	• Oil ✓
	 Feeds ✓
 Cultivated feeds enterprise ✓ 	 Pilling ✓
	 Feed mixes √

(Any 3 x 2) (6)

4.2.2 **TWO disadvantages of processing**

- Difficult to access capital for new industries ✓
- New products compete with established product in the market ✓
- Lack of experience and expertise on the side of business owners \checkmark

(Any 2) (2)

4.3	 Attaching duties to their relevant management function 1 = Implementing ✓ 2 = Control ✓ 3 = Organising and co-ordinating ✓ 4 = Planning ✓ 5 = Decision making ✓ 	(5)
4.4	Management	
4.4.1	 Meaning of delegation To make other people/workers ✓ Co-responsible for the execution of tasks ✓ And the control of workers/tasks ✓ 	(3)
4.4.2	 TWO effects of delegation of tasks Higher productivity ✓ Feel appreciated ✓ Enrich self confidence ✓ Feels satisfied ✓ Feels part of management ✓ (Any 2) 	(2)
4.5	Differentiate between types of agritourism	
4.5.1	 Farm stay holidays Tourists visit farms, that is a holiday resort with bed and breakfast facilities √ To enjoy the cultural and natural landscape √ 	(2)
4.5.2	 Ecotourism Is a travel to natural areas to learn about how the people live and natural history of the environment √ Taking care not to change the environment and contribute to the economic welfare of the local people √ 	(2)
4.6	Harvesting	
4.6.1	 ONE reason for harvesting at correct stage of readiness To ensure that it reaches the consumers in good condition ✓ To prevent rotting and spoilage of crop ✓ (Any 1) 	(1)
4.6.2	 THREE important factors to be considered when planning for harvesting Time of harvesting ✓ Amount of labour ✓ Availability and amount of harvesting equipment ✓ Starting date and ending date of harvesting ✓ 	

- Harvesting method \checkmark •
- Protective clothing for harvesting \checkmark •

(Any 3)

(3)

11

4.7 Storing

4.7.1 Verify statement with TWO reasons

- More evenly distribution of products throughout the year \checkmark
- To sell products when the price at the markets increase \checkmark •

4.7.2 FOUR types of packaging material

- Cartons ✓ •
- Packet/bags ✓ •
- Barrel ✓ •
- Cup √ •
- Cans √ •
- Bottles ✓

(4) (Any 4)

(2)

4.8 Aspects of labelling requirements

- The use of a trade mark and product description of the content. \checkmark
- Pictorial representation of the content or serving suggestions in which the • product is used with a clear distinction in terminology and representation
- The name and street address of the manufacturer of the product \checkmark •
- A list of indredients in order of contribution in mass to the whole \checkmark •
- The main ingredients are mentioned first and additives are mentioned • under collective names except in case of tartrazine, preservatives and phenylalanine √
- Nutritional information determined according to RDA tables and which • exceeds set minimum values \checkmark (Any 4)

4.9 Farm evaluation

- Lacks financial insight and skilled financial management •
- Lacks knowledge of target markets and competitors ✓ •
- Unwillingness to take risks ✓ •
- Poor customer service ✓ •

(Any 3) (3)

(4)

4.10 Business plan

4.10.1 **Design coversheet for business plan**

- Name of the business TAU Fresh Produce Enterprise ✓
- Address and contact details of Agri-business or farm ✓
- Ownership (private owner) ✓
- Type of business fresh produce ✓
- Name(s) of owner(s) Francis Louw ✓
- Date of plan ✓

AND

• Design with information ✓

(Any 5) (5)

4.10.2 **TWO market information that should be included in the agribusiness** plan

- Market research ✓
- Target market ✓
- Products to be produced \checkmark
- Distribution ✓
- Competition ✓

(Any 2) (2) **[50]**

- TOTAL SECTION B: 150
 - GRAND TOTAL: 200