

basic education

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

NATIONAL SENIOR CERTIFICATE

GRADE 12

AGRICULTURAL MANAGEMENT PRACTICES

NOVEMBER 2021

MARKING GUIDELINES

MARKS: 200

These marking guidelines consist of 11 pages.

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SECTION A

QUESTION 1

1.1 1.1.2 1.1.3 1.1.4 1.1.5 1.1.6 1.1.7 1.1.8 1.1.9 1.1.10	Multiple choice $C \checkmark \checkmark$ $B \checkmark \checkmark$ $A \checkmark \checkmark$ $D \checkmark \checkmark$ $A \checkmark \checkmark$ $B \checkmark \checkmark$ $B \checkmark \checkmark$ $B \checkmark \checkmark$ $B \checkmark \checkmark$ $B \checkmark \checkmark$ $A \checkmark \checkmark$		(10 x 2)	(20)
1.2	Matching items			
1.2.1 1.2.2 1.2.3 1.2.4 1.2.5 1.2.6 1.2.7 1.2.8 1.2.9 1.2.10	$ \begin{array}{c} H \checkmark \checkmark \\ L \checkmark \checkmark \\ G \checkmark \checkmark \\ A \checkmark \checkmark \\ I \checkmark \checkmark \\ J \checkmark \checkmark \\ J \checkmark \checkmark \\ K \checkmark \checkmark \\ B \checkmark \checkmark \end{array} $	ÉcoleBooks	(10 x 2)	(20)
1.3	Agricultural terms			
1.3.1 1.3.2 1.3.3 1.3.4 1.3.5	Diversification ✓ Soil conservation ✓ Communication ✓ Liabilities ✓ Receipt ✓		(5 x 1)	(5)
1.4	Underlined words			
1.4.1 1.4.2 1.4.3 1.4.4 1.4.5	Deposit ✓ Design ✓ Processing ✓ Supply ✓ Smoking ✓		(5 x 1)	(5)

TOTAL SECTION Á 50

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QUES	TION 2: PHYSICAL FARM PLANNING	
2.1	Resources – Water	
2.1.1	 Main source of water for farmer Rainfall ✓ 	(1)
2.1.2	 Factors that determine the effectiveness of rainfall Rainfall intensity/tempo of rainfall/how hard it rain ✓ Tempo of evaporation ✓ Seasonal distribution ✓ Reliability during season ✓ Soil condition ✓ Topography (slope) ✓ Soil type (structure & texture (sand/clay)) ✓ Frequency of rainfall ✓ Amount of rain ✓ 	(4)
2.2	Veld deterioration	
2.2.1	 Effect of trampling on feed available in a camp Feed/grazing damage ✓ thus less feed/grazing will be available ✓ Decreasing in the carrying capacity ✓ and less animals can be kept ✓ EcoleBook (Any combination of the above 2) 	(4)
2.2.2	 Methods to overcome the feed factor during the calving season Give extra feed to animals ✓ Reduce the number of breeding animals ✓ Storing of feed ✓ Remove animals earlier (wean calves while enough feed is available) ✓ (Any 2) 	(2)
2.3	Law of diminishing return	
2.3.1	 Agricultural term for the relationship illustrated on the graph Law of diminishing return ✓ 	(1)
2.3.2	 Description of the term marginal yield The profitable income obtained ✓ Above the normal yield increase ✓ For each of the extra input ✓ 	(3)
2.3.3	 Implications of the point marked A on the graph Point where the amount of inputs ✓ Will result in no extra profitable income ✓ From this point on, the farmer will start to lose money ✓ Even with higher/increased yields ✓ 	(4)

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- 2.4 **Planning utilization of camps**
- 2.4.1 $G \checkmark$ (1)

 2.4.2 $C \checkmark$ (1)

 2.4.3 $F \checkmark$ (1)

 2.4.4 $A \checkmark$ (1)
- 2.5 **Resources Capital**

2.5.1 The main sources of capital for a farm business

- Production capital \checkmark capital quickly obtained \checkmark when goods are sold \checkmark
- Savings ✓ farming profits of previous seasons ✓ that accumulate in a bank and are used as capital ✓
- Credit ✓ overdraft, loans or credit facility ✓ that must be paid back within a certain time ✓
- External sources ✓ investors, inheritance, grants etc. ✓
 - (Any 2 + explanation) (6)

2.5.2 **Problems related to capital as a production factor**

• Capital is scarce ✓

Capital is expensive, because of high interest rates ✓

- High risks involved ✓
- Over capitalisation can occur ✓
- Under capitalisation can occur ✓
- Insufficient collateral ✓
- Additional expenditure for capital \checkmark

2.6 **Comparison of planters**

ASPECT	CONVENTIONAL PLANTER	NO-TILL PLANTER	
Cost of planter	Cheaper/Lower cost ✓	Expensive/Higher cost 🗸	
Cultivation costs	High cultivation costs ✓	Lower cultivation costs \checkmark	
Traction required	Less traction/smaller	Greater pull/bigger tractor	
	tractor needed ✓	needed 🗸	

2.7 Factors that influence drift of spray

- Droplet size ✓
- Pressure ✓
- Wind speed ✓
- Temperature ✓
- Humidity ✓
- Speed of implement ✓
- Applicator height from crop ✓

(Any 3) (3)

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(3)

(6)

(Any 3)

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Low returns ofLow demandLack of esse	ntial skills √ of mass tourism opera	cost √		(Any 3) (3)
 2.9 Niche markets Small market Target specifier Higher price Specialised price 	ic clients/customers √ range √	/		(Any 3) (3)
 Price in relati Condition of Cost to repai Possible exp 	ider in buying used ion to a new one ✓ the implement ✓ r or maintain the impl ansion ✓ with existing equipme	ement √		√ (Any 3) (3) [50]



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QUESTION 3: BUSINESS PLANNING, ENTREPRENEURSHIP, MARKETING, PRICE DETERMINATION AND THE MANAGEMENT PROCESS

3.1	Main types of resources on business plan	
	 Human resources ✓ 	(1)
	 The human resources available/needed in the new business venture should be mentioned √ Financial resources √ Fixed capital/infrastructure needed/available √ Floating capital needed/available √ 	(1) (1)
	 Own capital available to help you start your business ✓ (Any 1) Natural resources ✓ 	(1) (1)
	Availability of water and land will determine the size of your enterprise \checkmark	(1)
3.2	 Farming system and entrepreneurship Commercial farming ✓ 	(1)
	Reasons	(')
	 Food productions need to be increased as the world population keep on increasing √√ 	
	 Ecological agriculture needs to be taken into account as resources need to be protected	
	 Precision production as more food need to be produced from a smaller area	
	- Diversification of production and products are important as it decrease the risk $\checkmark\checkmark$	
	 Greater global competition provides the opportunity to export products √√ (Any 2) 	(4)
3.3	Production costs	

3.3.1 Value of the break-even-point

$$BEP = \frac{\text{fixed cost}}{\text{price} - \text{variable cost}}$$
$$= \frac{\text{R6 500}}{\text{R3 500} - \text{R1 000}} \checkmark$$

= 2,6 ton/ha ✓

(2)

(4)

3.3.2 Break-even-point

- It is the number of units that must be sold at a given price \checkmark
- That the total income of the farm/enterprise is equal to the total expenditure of the farm/enterprise ✓
- If sales are higher than the break-even-point, the farm makes a profit \checkmark
- If sales are lower than the break-even-point, the farm makes a loss ✓ (Values of QUESTION 3.3.1 can be used in the explanation)

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3.3.3	Profit • profit = (yield × price) - (BEP × price) = $(4 \times R3 500) \checkmark - (2,6 \times R3 500) \checkmark$ = R4 900/ha \checkmark	
	• selling = $4 \times R3500$	
	$= R14\ 000$	
	• $cost = 2,6 \times R3500$ = R9100 \checkmark	
	• $profit = R14\ 000 - R9\ 100$	(3)
	$= R4 900/ha\sqrt{(CA)}$	(-)
3.4	 Amount of product bought The price of the product ✓ The need for the product ✓ The preferences of consumers / quality of product✓ The buying power of consumers ✓ The number of consumers ✓ The range of products available to the consumer ✓ The price of competitive products ✓ 	
	• External factors like pandemonium among consumers ✓ (Any 4)	(4)
3.5	 Reasons for advertising To inform people about the product and services available/rendered ✓ To persuade people to buy the product or use the services ✓ To offer special offers ✓ 	(3)
3.6	Marketing strategies	
3.6.1	 Target market The specific customers you intend to attract/target √√ 	(2)
3.6.2	 Competition Producers selling the same product / rendering the same service √√ 	(2)
3.6.3	 Distribution How to get the product from the producer to the customer marketing goals √√ Plan how far you intend to grow with regard to sales, profits and customer satisfaction √√ Give information on methods and timeframe of distribution √√ (Any 1) 	(2)

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3.7

Distinguish between diversification and specialisation

		DIVERSIFICATION	SPECIALIZATIO	N	
	Implements	More implements of different kinds needed	Less implements of di kinds needed	ifferent	
		More expenses to buy and maintain different implements ✓	Less expenses to buy maintain different implements √	' and	
	Management	Difficult – knowledge of more than one production areas/Difficult to become an expert ✓	Simple – knowledge c one production area needed/Easy to be an expert √		(4)
3.8	Labour legislati	ion			
3.8.1	Worker conductCompensation	t and action ion for Occupational Injury and	Diseases act \checkmark		(1)
3.8.2	Action taken agDisciplinary	•			(1)
3.8.3	 Must refer to Taken as so Must always Action must 	nary steps ist know the actions to be taken to the offence and not to the wo oon as possible after the offence s be consequent / consistent be related to the offence nterfere with the working relation	rker ✓ e ✓	(Any 3)	(3)
3.9	 manager Leads to hig Builds self c Promote fee Workers fee 	made through motivation of f her productivity ✓ onfidence ✓ ling of well-being ✓ I more appreciated ✓ I part of the management team	-	arm (Any 3)	(3)
3.10	 It can lead to Can do diffe To increase Time saving Saves on re 	ining farm workers o promotion / more tasks ✓ rent/more tasks✓ the knowledge and skills of the as workers can do the require pairs as workers know how to o her productivity/efficiency ✓	d job quicker 🗸	t √ (Any 3)	(3)
3.11	 Psychological r Acceptance Being appre Being ackno Self-fulfilmer 	ciated ✓ wledged ✓		(Any 2)	(2) [50]

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QUESTION 4: FINANCIAL PLANNING, RECORDING, HARVESTING, VALUE ADDING, AND PACKAGING

4.1 Draw-up a budget

EXPECTED EXPENSES				
ITEM	QUANTITY	PRICE PER UNIT (R)	TOTAL PRICE (R)	
Seed	2 kg	400,00	800,00✓	
Fertilizer	850 kg	80,00/50 kg	1 360,00√	
Transport	17 bags	5,00/50 kg	85,00√	
Wages	2 workers	400,00	800,00√	
Packaging material	1 500	1,50	2 250,00√	
Transport to market	6 trips	300,00	1 800,00√	
Total expenses			7 095,00√	

EXPECTED INCOME				
QUANTITY	PRICE PER	TOTAL PRICE		
		(R)		
1 500 boxes	15,00	22 500,00√		
C.		22 500,00√		
Écol	eBooks	15 405,00√		
	QUANTITY 1 500 boxes	QUANTITY PRICE PER UNIT (R)		

4.2 Balance sheet

4.2.1 **Terminology**

(a) Fixed Assets

- The assets purchased for long-term use \checkmark and
- are not likely to be converted quickly into cash, \checkmark

(b) **Depreciation**

- A reduction in the value of an asset over time√
- due to usage or age ✓

(c) Creditor

• A person or company to whom the farm owes money $\checkmark\checkmark$

4.2.2 **Analysing income statement**

- To determine if the business is profitable \checkmark
- To determine if the business runs at a loss \checkmark
- If it runs at a loss determine why and try to rectify the situation \checkmark
- It runs at a profit determine how the profit can be increased \checkmark
- To compare budgeted values and to make changes to the budget \checkmark

(Any 2) (2)

(CA)

(CA) (CA) (10)

(6)

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4.3	 THREE reasons for buying processed products Have a longer shelf life ✓ Ease of handling ✓ Ease of transportation ✓ Easier to prepare for eating ✓ Available out of season ✓ Consumer preference ✓ (Any 3) 	(3)
4.4	 The importance of grading the products To add value to the product ✓ To obtain better prices at the market ✓ To prepare product of uniform quality ✓ To gain trust from the consumers ✓ To standardize quality ✓ Consumer preference✓ (Any 3) 	(3)
4.5	Risk management	
4.5.1	 Manage the risk It extend the original product shelf life ✓ Value is added to product ✓ Less chances of damage to the original product ✓ More profit could be obtained ✓ 	(3)
4.5.2	 Amount of profit per bottle Profit = selling price – break-even point = R116,00 – R82,00 ✓ = R34,00 ✓ 	(2)
4.5.3	Exporting of fruit juice • value = $R16\checkmark x \in 12\checkmark$ = $R192,00\checkmark$ OR value = $R16/\in 1\checkmark x \in 12\checkmark$ = $R192,00\checkmark$	(3)
4.5.4	 Influence of exchange rate on profit Because of a weaker Rand, the income will increase ✓ With a higher income it becomes more possible to expand ✓ 	

• Less risk financing the expansion ✓ (Any 2) (2)

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4.6	Harvesting of crops		
4.6.1	Harvesting		
	 Is the process whereby the produced products are removed/ 	cut √	
	• and collected from the field/animal \checkmark		(2)
4.6.2	Advantages of harvesting by hand		
1.0.2	 Relatively cheap √ 		
	Less maintenance ✓		
	Less damage ✓		$\langle 0 \rangle$
	 Products can be selected, ripe vs. non ripe products ✓ 	(Any 3)	(3)
4.6.3	Purposes for which crops are used for:		
	 For selling ✓ 		
	 Food for animals/people√ Ingredients in (medicine/cosmetics/household product) √ 		
	 Manufacturing 		
	 Processing	(Any 4)	(4)
4.7	Aspects considered when designing packaging material for	agricultural	
4.7	products	agricultural	
	Cost effective ✓		
	 Type of the material		
	 Protection of the product ÉcoleBooks Provide information to the consumers 		
	 Features to make it easy to handle√ 		
	 Easy to print on ✓ 		
	Attract people's attention (trademark/product recognition		$\langle 0 \rangle$
	 Characteristics of the product ✓ 	(Any 3)	(3)
4.8	Main causes of food spoilage		
	 Living micro-organisms on the food ✓ 		
	 The presence of enzymes in the food √ Damage caused by insects/rodents √ 		
	 Wrong handling and harvesting of the products √ 		
	 Inadequate storage facilities/temperature ✓ 		
	 Exposure to air (oxidation) ✓ 	(Any 4)	(4)
			[50]
	TOTAL	SECTION B:	150
	GRA	AND TOTAL:	200