

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE/ NATIONAL SENIOR CERTIFICATE

GRADE 12

AGRICULTURAL MANAGEMENT PRACTICES

NOVEMBER 2020

MARKING GUIDELINES

MARKS: 200

These marking guidelines consist of 10 pages.

TOTAL SECTION A:

50

SECTION A

QUESTION 1

```
1.1
        MULTIPLE CHOICE
        B√√
1.1.1
        A√✓
1.1.2
1.1.3
        B✓✓
1.1.4
        A, B, C ✓✓
        B✓✓
1.1.5
1.1.6
        D \checkmark \checkmark
        C 🗸
1.1.7
        A, D ✓✓
1.1.8
        B√√
1.1.9
1.1.10
        C \checkmark \checkmark
                                                                              (10 \times 2)
                                                                                           (20)
1.2
        MATCH COLUMN A AND COLUMN B
        G√√
1.2.1
        E✓✓
1.2.2
        K √ ✓
1.2.3
1.2.4
        J√√
1.2.5
        C √√
                                         ÉcoleBooks
        D√✓
1.2.6
1.2.7
        H√✓
        B√✓
1.2.8
1.2.9
        A√✓
1.2.10 F ✓ ✓
                                                                              (10 \times 2)
                                                                                           (20)
1.3
        AGRICULTURAL TERMS
1.3.1
       Budget ✓
       Sorting ✓
1.3.2
1.3.3
       Basic Conditions of Employment Act ✓
       Surplus / Glut√
1.3.4
       Current / short term liabilities ✓
1.3.5
                                                                               (5 \times 1)
                                                                                           (5)
1.3
        UNDERLINED WORDS
1.4.1
        Management / Crop rotation/ Sustainability ✓
1.4.2
        Capital ✓
1.4.3
        Stability ✓
1.4.4
        Topography ✓
1.4.5
        Contract marketing✓
                                                                                (5 \times 1)
                                                                                           (5)
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(4)

SECTION B

QUESTION 2: PHYSICAL AND FINANCIAL PLANNING

2.1 Negative influence of strong winds on crop production

- The wind can damage the leaves, flowers, and fruit setting ✓ this will lead to a reduction in photosynthesis ✓ and thus lower production. ✓
- More transpiration and evaporation ✓ plants to stress more ✓ production will be lower. ✓
- Plants can also be uprooted ✓ or be blown over ✓ this will result in no production√

2.2 **Agricultural Acts**

2.2.1 Farm workers have the right to work in a safe environment

Occupational Health and Safety Act, 1993 (Act 85 of 1993) √

2.2.2 **FOUR protective measures**

- Wash their hands after using the chemicals ✓
- Wear protective clothing like overalls with long sleeves, masks√
- Never pour chemicals from hand to hand but on a stable surface ✓
- Mix chemicals according to instructions of manufacturer ✓
- Be properly trained to work with chemicals ✓
- Don't bring chemicals close to water, food, fish and animals ✓ (Any 4)

2.3 **Needed capital**

	Long-term capital (fixed capital)	Medium-term capital (movable capital)	Short-term capital (working capital)
Livestock		✓	
Implements		✓	
Fences	✓		
Wages			✓

2.4 **Types of labour**

2.4.1 Seasonal worker√ (1)

2.4.2 Permanent/ full-time employee√ (1)

2.4.3 Casual / occasional labour/ contracted worker√ (1)

2.5 **Protecting soil fertility and erosion**

- Additional organic material reduce erosion√
- Better groundcover reduce erosion√
- Use zero/minimum tillage for better soil cover√
- Correct cultivation-/ irrigation-/grazing practices√
- Reduce length of slope to reduce speed of water that contributes to erosion √
- Mulching reduce erosion ✓

(Any 5)

(5)

(4)

2.6

		Commercial farming system	Subsistence farming system
2.6.1	Technology	Mechanised/ More √	Use animal traction/hands / Less√
2.6.2	Outputs	Large amounts √	Small amounts √

2.7 Resource utilization and grazing management

2.7.1 Evaluate the sizes of the camps

- The farmer must fence veld types with the same potential and palatability of grazing together ✓
- If the natural veld is more palatable ✓ the farmer needs a smaller area ✓
 to get the same nutrition for the livestock. ✓
- If the natural veld is less palatable ✓ the farmer needs a bigger area ✓ to get the same nutrition for the livestock ✓ (Any 2)

2.7.2 THREE advantages of a wagon wheel layout

- The water trough is in the middle of all the camps ✓
- Only one trough to maintain ✓
- Reduces labour costs ✓
- Reduces time, energy and money spend on maintenance √ (Any 3)

2.7.3 Problem of rotational grazing between camps of different size and nutrition

The time ✓ that the animals spend in a small camp should be shorter and vice versa ✓

2.7.4 Reasons for resting camps

- The maximum production of grazing material can then take place ✓
- Mature climax grasses can form seeds ✓
- Young plants can get the opportunity to establish themselves ✓
- Further root development can take place
- Plants can recover after grazing ✓
- Prevent overgrazing √ (Any 3)

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2.8 Soil properties

2.8.1 **Soil colour**

- Red / yellow soils have good drainage ✓ and crops will grow well if sufficient water is available ✓
- Dark / brown soils are rich in organic matter√ and have a natural 'fertility'
 making them good for crop production √
- Grey soils are waterlogged soils ✓ and not good for crop production ✓

(Any 2 x 2) (4)

2.8.2 **Soil texture**

- Sandy soils have a fast infiltration ✓ rate but does not hold water ✓ soil will produce well if enough rainfall present ✓
- Sandy soils are less fertile than clay soils and more fertilisers

 ✓ need to be added to sandy soils than to clay soils ✓ to obtain good production ✓
- Clay soils have a slow infiltration
 ✓ and hold water better
 ✓ good for production
 ✓
- Clay soils are also more fertile ✓ because of nutrients retained ✓ good for production ✓ (Any 2 x 3)

2.9 **Soil pollution**

2.9.1 **Soil degradation**

- A too high concentration of pesticides will kill soil organisms (bacteria/ earthworms) √
- Infertility of soil leads to bare areas and no vegetation √
- Contribute to loss of ecosystems √

(Any 2) (2)

2.9.2 Water pollution

- A too high concentration of pesticides from the polluted soil drain ✓ into the ground water and cause pollution of the ground water ✓
- Pesticides drift can pollute water sources √

(Any 2) (2)

2.10 Use of animal traction on the farm

- Ploughing ✓
- Pulling a cart to deliver lick/transport material etc.√
- Gathering and counting livestock/checking fences √
- Transporting people ✓ (Any 2)

[50]

QUESTION 3: ENTREPRENEURSHIP, RECORDING, MARKETING, BUSINESS PLANNING AND ORGANISED AGRICULTURE

3.1	 Location of the market /demographic of the market ✓ The products that consumers need ✓ The price consumers are willing to pay for the product ✓ Expectations of the consumers on the product you are producing ✓ Competitors producing the same product ✓ (Any 4) 	(4)
3.2 3.2.1	Agricultural businesses Primary agricultural sector • Vegetables ✓ • Dairy ✓	(2)
3.2.2	Secondary agricultural sector • Agritourism • Abattoirs ✓	(2)
3.2.3	Tertiary agricultural sector • Feed companies ✓ • Irrigation supplier ✓	(2)
3.3 3.3.1	Comparison of free and cooperative marketing ■ Less bargaining power ✓	(1)
3.3.2	 High marketing costs ✓ 	(1)
3.3.3	 Less protection ✓ 	(1)
3.3.4	 High bargaining power ✓ 	(1)
3.3.5	 Low marketing costs per unit ✓ 	(1)
3.3.6	 More protection ✓ 	(1)
3.4.	Need for finance in the process of selling produce • For transport costs • For storage costs • For labour costs (Any 2)	(2)
3.5	 Price determination Cost ✓ – it determines the minimum price that one can sell produce to make a profit. ✓ Demand ✓ – the higher the demand for a specific product, the higher the price will be and vice versa. ✓ Competition ✓ – competitive products will have an influence on the price. ✓ 	(6)

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3.6 Supply and demand

• It is best to supply the market with your product when demand ✓ for the product is high ✓ and the supply ✓ from other producers is low ✓ in order to collect the highest possible market price.

(4)

3.7 Crop production budget

3.7.1 **Definition of a budget plan**

It is a plan of the future income and expenses of a business√√

(2)

3.7.2 Crop production budget: Missing values

- (a) R80,00√
- (b) R85,00√
- (c) R1 600,00√
- (d) R10 012,00√

(e) R22 500,00√

(5)

3.7.3 Calculate the profit or loss

- Profit/ loss= total income minus total expenses (Formula)√
- Profit/ loss=R22 500–R10 012√ (CA-marking)
- Profit/loss = R12 488√ (profit) because the expenses are less than the income. ✓ (Unit must be indicated)

(4)

3.7.4 Basic elements of a budget

- Estimated income for a certain period oks
- Estimated cost/expenditure to obtain it√

(2)

3.8 List of farming enterprise records

Production record	Physical record	Financial record
Crop yield per ton of fertilizer. ✓	 Workshop tool inventory√ 	 Cash flow√
 Number and condition of young animals born√ 	Stock of seeds for the next planting season✓	 Workshop tool inventory

(5)

3.9 Balance sheet

3.9.1 Increase in asset

- Land and building: ✓ Fixed assets will grow in value over time with normal maintenance✓
- Livestock: ✓There could be in increase in livestock numbers
- Cash ✓ Selling more products/obtain higher prices for products ✓

(Any 1 x 2) (2)

3.9.2 Increase in liability

Accounts payable√

(1)

3.9.3 **Reason for lower value**

Depreciation ✓ (wear and tear/old)

(1)

[50]

(6)

QUESTION 4: HARVESTING, PROCESSING, MANAGEMENT AND AGRITOURISM

4.1 Farm Management

4.1.1 Reasons for planning

- Change in resource patterns ✓ how resources are available and the balance between these resources requires new planning ✓
- Change in technological and biological relations ✓ new technology used required new planning ✓
- Change in prices ✓ higher input costs require new planning regarding products produced. ✓
- Risks and uncertainties ✓ Review is a continual process, some aspects are beyond the farmers control and requires review. ✓ (Any 3 x 2)

4.1.2 Steps in the planning process

- Formulate objectives and goals. ✓
- Collect information. ✓
- Analyse information. ✓
- Develop alternatives✓
- Choose between alternatives. ✓
- Implementation and evaluation√.

4.2 Reasons for employer/employee contract

- It is a legal requirement ÉcoleBooks
- Establish legal agreement√
- Protects the right of both parties√
- Formally defines terms of employment√
- It can be referred to if a dispute arises✓
- Defines what is expected (job description) ✓
- Contains the basic conditions of employment√ (Any 5)

4.3 Storage of agricultural products

4.3.1 **Temperature**

Must be cool /suitable temperature ✓

4.3.2 Ventilation

 Must be sufficient air circulation/enough oxygen/low carbon dioxide levels ✓

4.4 Food processing

4.4.1 Aim of processing food

- To bring high quality food / Prevent spoiling or decay/longer shelf-life ✓✓
- Value adding / Higher prices ✓√

4.4.2 Discuss THREE disadvantages of processing

- Difficult to acquire capital to start new venture ✓
- New products compete with established products ✓
- Lack of expertise by the farmer in a competitive market ✓
- Change in physical appearances and taste ✓ (Any 3)

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4.4.3	THREE requirements of Ideal	packaging material	

- Light weight√
- Transparent√
- Easily opened and closed√
- Non-toxic√
- Hygienic ✓
- Adjustable with food ✓
- Protection of the product ✓
- Tamperproof ✓
- Easy to print or labelling ✓
- Resistant to mechanical and thermal damage ✓
- Environmentally friendly ✓
- Cost effective ✓
- Easily disposable ✓

(Any 3) (3)

4.4.4 Types of packaging material

- Rigid ✓
- Semi-rigid ✓
- Flexible ✓

(Any 2)

(2)

4.5 Food safety

Food handling strategies 4.5.1

- Regular monitoring and surveillance by health authority ✓
- Management of food handling process

(1) (Any 1)

4.5.2 Principles of health in food handling

- Education and training ✓
- Reporting of illness/health interviews ✓
- Management commitment ✓

(Any 2)

(2)

4.6 Value adding methods

Meat – graded, ✓ cuts, ✓ dried ✓ and packed ✓ 4.6.1

(4)

4.6.2 Wool – sheared, ✓ graded, ✓ packed ✓ (3)

Grains – graded, ✓ milled, ✓ packed, ✓ baked ✓ 4.6.3

(4)

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4.7 **Agritourism**

4.7.1 Reasons behind the positive increase in the agritourism

- People are looking for new experiences/adventure/recreation/ uncomplicated life/less technology. ✓
- It is local therefore people can spend more money because travelling costs are reduced. ✓
- Parents want children to experience the country life/get educated in farm life. ✓
- Farmers diversify- reducing risks ✓
 - increase income ✓
 - optimize use of resources ✓
- Farmers can enjoy sharing farm lifestyle with other people/meet interesting people/socialize more. √ (Any 4)

4.7.2 Agritourism contributes to the economic objectives of the country

- Jobs are created /increase employment ✓
- Training is provided and people are empowered. ✓
- Communities benefit from the development/living conditions are improved/ transport services/vegetable gardens/ entrepreneurial possibilities √
- Conservation of resources takes place √
- Increasing revenue of the area and/or country ✓ (Any 3)

[50]



TOTAL SECTION B: 150 GRAND TOTAL: 200