



# basic education

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

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 12**

**AGRICULTURAL MANAGEMENT PRACTICES**

**NOVEMBER 2023**

**MARKING GUIDELINES**

**MARKS: 200**

**These marking guidelines consist of 13 pages.**

**SECTION A****QUESTION 1****1.1 Multiple choice**

- 1.1.1 D ✓✓
- 1.1.2 C ✓✓
- 1.1.3 D ✓✓
- 1.1.4 B ✓✓
- 1.1.5 C ✓✓
- 1.1.6 B ✓✓
- 1.1.7 C ✓✓
- 1.1.8 A ✓✓
- 1.1.9 C ✓✓
- 1.1.10 D ✓✓

(10 x 2) (20)

**1.2 Matching items**

- 1.2.1 B ✓✓
- 1.2.2 G ✓✓
- 1.2.3 J ✓✓
- 1.2.4 D ✓✓
- 1.2.5 L ✓✓
- 1.2.6 A ✓✓
- 1.2.7 C ✓✓
- 1.2.8 H ✓✓
- 1.2.9 F ✓✓
- 1.2.10 K ✓✓

(10 x 2) (20)

**1.3 Agricultural terms**

- 1.3.1 Granular / Crumb ✓
- 1.3.2 Contour / Contour lines ✓
- 1.3.3 Organic / Biological / Regenerative ✓
- 1.3.4 Filtration ✓
- 1.3.5 Electronic devices / Data capturing devices ✓

(5 x 1) (5)

**1.4 Underlined words**

- 1.4.1 Smaller / Lower / Less ✓
- 1.4.2 Advertising / Advertisement / Promotion ✓
- 1.4.3 Transportation / Transport ✓
- 1.4.4 Deposit slip / Deposit book ✓
- 1.4.5 Overhead costs ✓

(5 x 1) (5)

**TOTAL SECTION A: 50**

**SECTION B****QUESTION 2: PHYSICAL FARM PLANNING****2.1 State the functions of soil**

- Provides plant nutrients / minerals / raw materials ✓
- Stores and provides water to plants ✓
- Allows the movement of air ✓
- Allows water infiltration ✓
- Acts as a medium for plants growth ✓
- Provides shelter / habitat for organisms ✓
- Plays a role in carbon sequestration ✓
- Plays an important role in climate regulation ✓
- Provision of space ✓
- Anchors / support the plant ✓

(Any 4) (4)

**2.2 Southern slope and the Northern slope****2.2.1 Explain temperature of the soil**

- Southern slope is cooler than the Northern slope ✓  
because it is less directly exposed to sunlight ✓

**OR**

- Northern slope is warmer than the Southern slope ✓  
because it is more directly exposed to sunlight ✓

(Any 1 x 2) (2)

**2.2.2 Explain organisms in the soil (soil fauna)**

- Southern slope has less microbial activity ✓  
because organisms are less active under cooler conditions ✓

**OR**

- Northern slope has more microbial activity ✓  
because these organisms are more active under warmer conditions ✓

(2)

**2.3 Distinguish between soil texture classes**

<b>CHARACTERISTICS</b>	<b>SAND</b>	<b>CLAY</b>
Water holding capacity	low / less ✓	high / more ✓
Soil fertility	low / less ✓	high /more ✓

(4)

**2.4 Discuss the importance of soil surveys to farmers**

- Soil types are identified ✓ so that production capacity can be determined ✓
- Till ability of soils is identified ✓ and classified ✓
- Determine purpose and type ✓ as high production soils, marginal soils, low production soils ✓
- Protects against degradation ✓ such as erosion, overgrazing and brackishness ✓
- Prevent silting of dams ✓ due to erosion ✓
- Assist engineers in the development of the area ✓ or buildings and structures on the farm ✓
- Developing soil maps ✓ with information provided by the soil survey ✓

(Any 2 x 2) (4)

**2.5 Grazing system****2.5.1 Distinguish between grazing system****(a) FARM A – Continuous grazing**

- Livestock is allowed to have unrestricted, uninterrupted access to a whole area ✓ throughout the entire grazing season ✓

(2)

**(b) FARM B – Rotational grazing**

- The movement of livestock to different camps ✓ in regular sequence ✓

(2)

**2.5.2 State the disadvantages of the grazing system used on FARM B**

- More fencing required ✓
- More water provision points needed ✓
- More labour is needed ✓
- High management skills are needed ✓
- Costs will increase ✓

(Any 2) (2)

**2.5.3 Describe the advantages of resting a camp**

- Maximise the continuous production of high-quality feed ✓
- Prevent degradation of grazing ✓
- Pastures more resistant to periods of drought due to extensive root development ✓
- Dry matter (DM) production increases ✓
- Seeding increases and time is given for development ✓
- Extended grazing periods after resting period ✓
- Control of parasites ✓
- Succession of plants benefited ✓

(Any 3) (3)

**2.6 Labour Laws**

- 2.6.1 B ✓ (1)
- 2.6.2 D ✓ (1)
- 2.6.3 A ✓ (1)
- 2.6.4 C ✓ (1)

**2.7 Farming scenario's****2.7.1 Identify farming systems**

- (a) **FARMER A**
- Commercial farmer ✓ (1)
- (b) **FARMER B**
- Subsistence farmer ✓ (1)

**2.7.2 Describe intensity or level of land use by FARMER A**

- Intensive use of the land ✓
- Many animals per ha ✓
- Animals are fed by the farmer ✓
- Animals do not have to look for their own food ✓ (Any 2) (2)

**2.7.3 Deduce FARMER A's leather industry**

- NOT a niche market ✓ (1)
- Reasons:**
- Is large scale production (15 473 hides) ✓
  - Farmer has an industry that produce the goods, it is not small scale ✓
  - Farmer produces items in general, it is not exclusive/specialised for specific needs ✓ (Any 2) (2)

**2.7.4 Comment on FARMER B difficulty to sell excess**

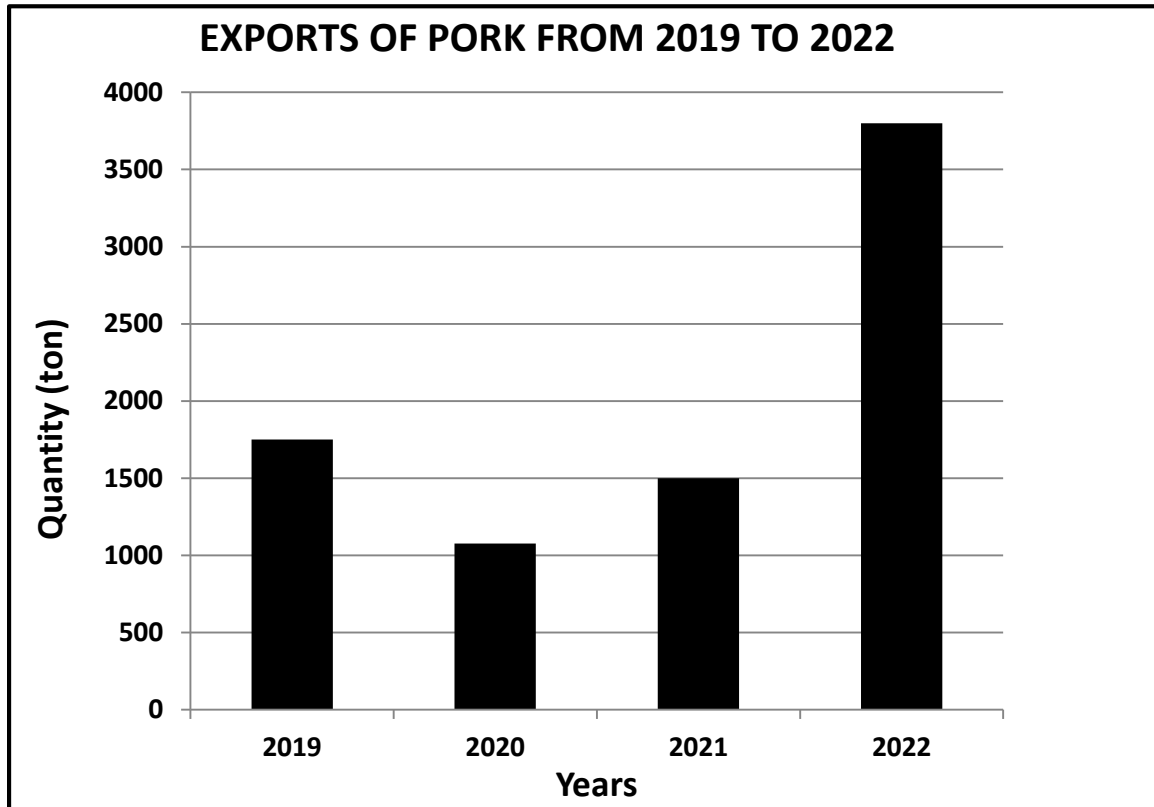
- Far from market, transport costs are high ✓
- Market might be small, less buyers ✓
- Over-supply at the market ✓
- Farmer B must work through a market agent ✓ that needs to be paid
- Excess produce not of good quality ✓
- Produce takes long to reach market, quality deteriorates ✓
- Packaging may not be up to standard ✓
- Very difficult to compete with commercial farmers / with regard to quality and quantity ✓ (Any 3) (3)

- 2.8 **Describe importance of precision farming**
- Increase efficiency in the use of resources ✓
  - Increase or maintain outputs with reduced inputs ✓
  - Can manage smaller units more efficiently ✓
  - Conservation of the environment ✓
  - Makes the farm more viable by reducing input costs ✓
- (Any 3) (3)
- 2.9 **Agritourism**
- 2.9.1 **Name activities on the farm**
- Picking/harvesting fruit ✓
  - Horseback rides ✓
  - Milking cows ✓
- (3)
- 2.9.2 **Identify missing information**
- Name of the farm ✓
  - Contact details / e-mail address / cell phone number ✓
  - Electronic media (Facebook page / Instagram) ✓
  - Address of farm / location ✓
  - Description of possible activities ✓
- (Any 2) (2)
- 2.9.3 **Indicate how to improve advert**
- Use colour ✓
  - Use drawings done in the same style ✓
  - Use photographs not drawings ✓
  - Increase the size / formatting of the lettering in the heading ✓
  - Add more information ✓
- (Any 3) (3)  
**[50]**

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

**3.1 Bar graph on prices**

**3.1.1 Draw a bar graph of pork**



**Rubric:**

- Title of the graph (pork) ✓
- Labelling and calibration of x-axis and y-axis with units ✓
- Any two correct bars ✓ (2x1 = 2 ✓✓)
- Correct type of graph ✓

(5)

**3.1.2 Give a reason for decline in 2020**

- COVID-19 / outbreak of an animal disease ✓ that lock the borders for export ✓

(2)

- 3.2 Name and describe factors for a product marketing strategy**
- Quality of produce ✓  
product must meet the quality requirements of consumer ✓
  - Demand ✓  
the farmer must be able to identify changes in demand ✓
  - Price of the product ✓  
the farmer must be able to compare/read tendencies of prices ✓
  - Promotion of the product ✓  
value must be added to make it enough to be purchased ✓
  - Place ✓  
the location must be convenient for consumers to access ✓
- (Any 2 factors + description) (4)
- 3.3 Entrepreneurship**
- 3.3.1 Identify type and motivate of agricultural sector**
- Tertiary agricultural sector ✓ (1)
- Motivation:**
- The scenario provides goods and services needed by the primary and secondary agricultural sector ✓ (1)
- 3.3.2 Give the importance of the tertiary sector**
- Economic growth/additional income ✓
  - Provides with job opportunities ✓
  - Leads to establishment of businesses ✓
  - Give advice to farmers ✓
  - Promotes the development of new and innovative goods and services ✓
  - Provide services to the farmer ✓ (Any 3) (3)
- 3.4 Choose principle of management**
- 3.4.1 Organisation ✓ (1)**
- 3.4.2 Control ✓ (1)**
- 3.4.3 Motivation ✓ (1)**
- 3.5 Break-even point**
- 3.5.1 State sales lower than break-even point**
- The farm is making a loss ✓ (1)
- 3.5.2 State sales higher than break-even point**
- The farm is making a profit ✓ (1)



3.6 **Marketing**

3.6.1 (a) **Farm A**

Cost per chicken = Feed + Vaccination + Electricity + Labour  
 = R20 + R5 + R5 + R20 ✓  
 = R50/chicken ✓

(2)

(b) **Farm B**

Cost per chicken  
 = Feed + Vaccination + Electricity + Labour + Processing + Transport  
 = R20 + R5 + R8 + R15 + R5 + R10 ✓  
 = R63/chicken ✓

(2)

3.6.2 **State possible methods of determine price**

- Market orientated pricing ✓
- Break-even point ✓
- Cost plus profit margin / Production cost and adding a mark-up percentage ✓
- Supply and demand ✓

(Any 3) (3)

3.6.3 **Identify TWO Marketing functions in B from scenario**

- Processing ✓
- Transportation / Transport ✓
- Sales ✓

(Any 2) (2)

3.7 **State ways of assistance of producer organisations**

- Negotiation with banks on terms of credit on behalf of farmers ✓
- Organise inputs and negotiate discounts on behalf of farmers ✓
- Organise markets for farmers ✓
- Provide technical / scientific advice to farmers ✓
- Give market information ✓
- Advertise and promote agricultural products ✓

(Any 3) (3)

3.8 **Choose roles and responsibilities of employees**

MANAGER	SUPERVISOR	WORKER	WORKER
		CROP PRODUCTION	ANIMAL PRODUCTION
3.8.1 B ✓	3.8.2 A / C / E ✓ 3.8.3 A / C / E ✓	3.8.4 D / F ✓	3.8.5 C / D ✓ 3.8.6 C / D ✓

(6)

**3.9 State the labour problems on farms**

- Theft ✓
  - Damage of assets ✓
  - Labour unrest / strike / conflict ✓
  - Unreliability / irresponsible workers ✓
  - Late for work / Leave early ✓
  - Substance abuse ✓
  - High labour costs ✓
  - Lack of available / skilled / trained labour ✓
  - Migration of farm workers to the cities ✓
  - Absent without leave ✓
  - Performing a variety of tasks ✓
  - Absenteeism due to illness (HIV / AIDS / COVID etc.) ✓
- (Any 4) (4)

**3.10 Describe the importance of market research**

- Guide the farming enterprise in decision making ✓
  - Make sure the product meets the market demands ✓
  - To provides knowledge of:
    - what the competition offers ✓
    - current sales in the industry ✓
    - benchmarks (standard) in the industry ✓
    - reliable suppliers ✓
- (Any 2) (2)

**3.11 State the disadvantages of enterprise specialisation**

- Poor commodity prices ✓
  - Seasonal fluctuation and poor weather conditions determine the planting time and the harvest time ✓
  - Income limited to a specific time of year ✓
  - Higher marketing risks ✓
  - More susceptible to disease outbreaks ✓
- (Any 2) (2)

**3.12 Formulate THREE questions to consider for suitable branch**

- What natural resources (veld type / climate / water) are available? ✓
  - What markets are available? ✓
  - Who is the competition in this market? ✓
  - What production resources are available? ✓
  - What is the available capital / input costs/initial costs? ✓
  - What labour is available and what is their level of skills? ✓
  - What is the knowledge / skills of enterprise is available? ✓
  - What are the farmers' preferences? ✓
  - Which support services / infrastructure / extension services are available? ✓
  - Is synchronisation between branches possible? Is there conflicting interests? ✓
- (Any 3) (3)

**[50]**

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

- 4.1 **Name aspects to consider when compiling a budget for crop production**
- Area to be planted ✓
  - Labour costs ✓
  - Costs of inputs for production process ✓
  - Output/Price ✓
  - Harvesting costs ✓
  - Marketing cost ✓
- (Any 4) (4)
- 4.2 **Budgets**
- 4.2.1 **Choose characteristics of a whole farm budget**
- D ✓
  - F ✓
- (2)
- 4.2.2 **Choose characteristics of an branch budget**
- C ✓
  - G ✓
- (2)
- 4.3 **Differentiate between**
- 4.3.1 **Invoice**
- Show all the different services or commodities, amount and value ✓ that was bought and the farmer still has to pay ✓
- (2)
- 4.3.2 **Income Statement**
- Record of income and expenditure ✓ for a given time period ✓ and the resulting profit or loss on a farm ✓
- (Any 2) (2)
- 4.4 **Complete the Balance sheet**
- (a) Land and buildings – R1 150 000 ✓
  - (b) Second-hand tractor – R50 000 ✓
  - (c) Debtors – R13 000 / Cash – R2 000 ✓
  - (d) Cash – R2 000 / Debtors – R13 000 ✓
  - (e) Creditors – R10 000 ✓
  - (f) R1 295 000 / R1 260 000 ✓
- (6)

**4.5 Record keeping****4.5.1 State the importance of keeping accurate records**

- Used in strategic decision making ✓
  - Used for planning ✓
  - Used in determining profitability of the enterprise ✓
  - Create a database on farm's activities / records ✓
  - Help the farmer in improving the efficiency of the farm's operations ✓
- (Any 4) (4)

**4.5.2 Identify the main challenges leading to poor record keeping in farming**

- Lack of knowledge / Literacy levels ✓
  - Not enough time / Time consuming ✓
  - Too much work / Work load too high ✓
  - Not based on facts but guessing / Poor realisation of the need to keep records ✓
  - Inadequate management information system ✓
- (Any 3) (3)

**4.5.3 Name an information management system**

- Agricultural management software/computer program ✓
  - Hand written records ✓
- (Any 1) (1)

**4.6. Matching source documents**

4.6.1 Invoice ✓ (1)

4.6.2 Pay slip ✓ (1)

4.6.3 Receipt ✓ (1)

4.6.4 Bank statement ✓ (1)

**4.7 State factors used to determine the quality of fresh produce at harvesting**

- Appearance ✓
  - Texture ✓
  - Flavour ✓
  - Damage ✓
  - Product specific content (nutritive value, sugar, protein, starch, acid content, moisture) ✓
- (Any 4) (4)

- 4.8 **Recommend guidelines to consider when constructing a storage facility**
- Type of product stored ✓
  - The structure must be easy to clean and sanitise ✓
  - Floors and roofs must be water proof ✓
  - Avoid wood materials ✓
  - Use strong building materials ✓
  - Adhere to legislation on building regulations ✓
  - Adhere to legislation regarding to cleaning and hygiene ✓
  - Include insulation material in the roof and walls ✓
  - Avoid materials with rough surfaces ✓
  - Non-combustible or heat resistant material must be used for building ✓
  - Placement of the facility ✓
  - Security in and around the facility ✓
  - Prevent access to pests / rodents ✓
- (Any 4) (4)
- 4.9 **Value adding**
- 4.9.1 **State advantages in drying**
- Extends the shelf life of the product ✓
  - Increases the potential and value for a product ✓
  - Less weight thus easier to transport to the market ✓
  - Protect against organisms that cause product decay ✓
  - Easier to package and store ✓
- (Any 3) (3)
- 4.9.2 **Justify statement: “*Processing is valuable to job creation*”**
- Need for more workers / hiring more workers in processing ✓  
this result in more job opportunities ✓
- (2)
- 4.10 **Packaging**
- 4.10.1 **Discuss benefits of using glass bottles / jars**
- It completely protects food ✓ against micro-organisms, pests, moisture, air and odours ✓
  - Do not contain chemicals that migrate into food ✓ no contamination ✓
  - Containers are rigid ✓ to allow stacking without damage ✓
  - It is transparent ✓ to display the contents ✓
  - It is re-usable ✓ saving on costs ✓
- (Any 2 x 2) (4)
- 4.10.2 **State the disadvantages of plastic**
- Not environmentally friendly / not easily disposable / not easily biodegradable ✓
  - Does not always protect from light ✓
  - Not resistant to thermal damage ✓
  - Not sturdy / difficult to stack ✓
  - Can contaminate product when heated ✓
- (Any 3) (3)
- [50]**

**TOTAL SECTION B: 150**  
**GRAND TOTAL: 200**