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GRADE 12

AGRICULTURAL MANAGEMENT PRACTICES

NOVEMBER 2024

MARKING GUIDELINES

MARKS: 200

These marking guidelines consist of 15 pages.



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

- | | | | |
|--------|------|----------|------|
| 1.1.1 | C ✓✓ | | |
| 1.1.2 | B ✓✓ | | |
| 1.1.3 | B ✓✓ | | |
| 1.1.4 | A ✓✓ | | |
| 1.1.5 | D ✓✓ | | |
| 1.1.6 | C ✓✓ | | |
| 1.1.7 | A ✓✓ | | |
| 1.1.8 | B ✓✓ | | |
| 1.1.9 | C ✓✓ | | |
| 1.1.10 | A ✓✓ | (10 x 2) | (20) |

1.2 Matching Items

- | | | | |
|--------|------|----------|------|
| 1.2.1 | E ✓✓ | | |
| 1.2.2 | A ✓✓ | | |
| 1.2.3 | J ✓✓ | | |
| 1.2.4 | C ✓✓ | | |
| 1.2.5 | G ✓✓ | | |
| 1.2.6 | B ✓✓ | | |
| 1.2.7 | I ✓✓ | | |
| 1.2.8 | H ✓✓ | | |
| 1.2.9 | F ✓✓ | | |
| 1.2.10 | L ✓✓ | (10 x 2) | (20) |

1.3 Agricultural Terms

- | | | | |
|-------|---------------------------------|---------|-----|
| 1.3.1 | Rainfall / Rain ✓ | | |
| 1.3.2 | Soil survey / Soil evaluation ✓ | | |
| 1.3.3 | Farm gate marketing ✓ | | |
| 1.3.4 | Store / Storage / Storing ✓ | | |
| 1.3.5 | Income statement ✓ | (5 x 1) | (5) |

1.4 Underlined Words

- | | | | |
|-------|---|---------|-----|
| 1.4.1 | Mulching ✓ | | |
| 1.4.2 | Price ✓ | | |
| 1.4.3 | Coordination ✓ | | |
| 1.4.4 | Fermentation / yeast / bacterial cultures ✓ | | |
| 1.4.5 | Date ✓ | (5 x 1) | (5) |

TOTAL SECTION A: 50

SECTION B**QUESTION 2: PHYSICAL FARM PLANNING****2.1 Topography and slope****2.1.1 Describe slope and its usefulness**

- It is a moderately steep slope ✓ – with limited use for cropping enterprises ✓
- It is a moderately steep slope ✓ – cultivated pastures and forestry ✓

(Any 1 x 2) (2)

2.1.2 State TWO measures to improve area for crop production

- Create contour ridges / banks ✓
- Terracing ✓
- Strip cropping ✓
- Plant against the slope ✓

(Any 2) (2)

2.2 Soil health and soil structure properties**2.2.1 State TWO farming practices to improve soil health**

- Mulching ✓
- Crop rotation ✓
- Addition of organic matter ✓
- Correct cultivation methods ✓
- No use of chemicals ✓

(Any 2) (2)

2.2.2 Describe properties of a single grain structured soil

- Is usually loose ✓
- Low in nutrients ✓
- Poor water holding capacity ✓
- High water infiltration ✓
- Good aeration ✓

(Any 2) (2)

2.2.3 Explain the effect of a block-like structure on tillability

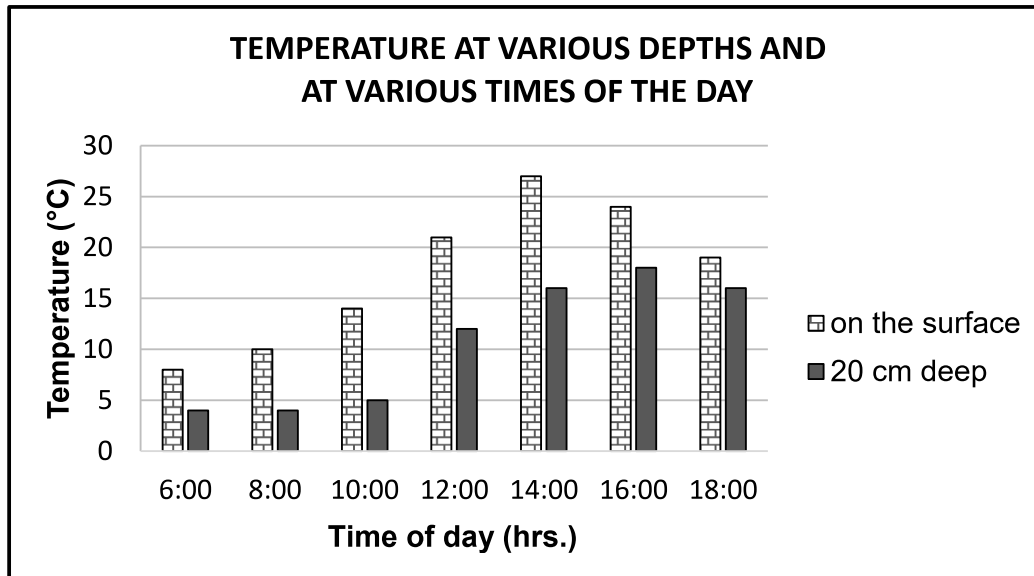
- Is difficult to till ✓ because the soil particles are tightly packed together ✓

(2)



2.3 Soil temperature

2.3.1 Draw double bar graph on soil temperature readings



Rubric

- Correct heading ✓
 - Correct type of graph (Double bar graph) ✓
 - All surface bars correct and key ✓
 - All 20 cm deep bars correct and key ✓
- (4)

2.3.2 Briefly describe the trend of temperature on the soil surface

- Temperature variation is high ✓
- Starts low, become warmer and then cool down again ✓
- Temperature increases up to 14:00 and then decrease again ✓ (Any 1) (1)

2.3.3 State TWO ways to reduce the temperature variations

- Mulching ✓
 - Shading ✓
 - Irrigation ✓
- (Any 2) (2)

2.3.4 Deduce the optimum time range for plant growth

- 11:00 – 18:00 ✓✓ (Any range within the range) (2)

2.4 Human resources and influence on productivity

2.4.1 Evaluate the action taken with regard to worker

- The action to remove the worker was correct ✓ (1)

Justification

- Health practitioner must first assess the health of the worker ✓
 - It is possible to transfer diseases through food ✓
 - Disease can spread to other workers ✓
- (Any 1) (1)



2.4.2 Name contagious disease

- Tuberculosis / TB ✓
- Flue ✓
- COVID ✓

(Any 1) (1)

2.4.3 Decision and reason on worker with an HIV-positive status

- No ✓

(1)

Reason

- HIV cannot be transmitted through food from one person to another ✓
- The process used in processing gets rid of any biological contamination ✓

(Any 1 reason) (1)

2.5 Name important factors a bank considers to offer credit

- Ability to pay back the loan / is the applicant solvent ✓
- Collateral made available by the applicant ✓
- The applicant's credibility / credit score ✓
- The type of investment credit is needed for ✓
- Risk related to the investment by the farmer ✓

(Any 2) (2)

2.6 Vegetation for grazing**2.6.1 Calculation of the feed available**

- Feed lost = (feed produced x lost grazing factor)
= (4 200 kg x 0,4)
= 1 680 kg ✓

$$\begin{aligned}\text{Feed available} &= \text{feed produced} - \text{feed lost} \\ &= 4\,200 \text{ kg} - 1\,680 \text{ kg (CA)} \checkmark \\ &= 2\,520 \text{ kg} \checkmark\end{aligned}$$

OR

- Feed available = feed produced – (feed produced x lost grazing factor)
= 4 200 kg – ✓ (4 200 kg x 0,4) ✓
= 4 200 kg – 1680 kg
= 2 520 kg ✓

OR

- Feed available = feed produced x available grazing factor
= 4 200 kg x 0,6 ✓✓
= 2 520 kg ✓

(3)

2.6.2 Calculation of the number of cattle

- Number of animals = feed available ÷ feed requirements
= 2 520 kg (CA) ÷ 10,55 kg/animal/day ✓
= 238,86
= 238 ✓✓ cattle/day

(3)



2.7 Soil degradation**2.7.1 Give other examples of soil degradation**

- A – soil erosion / soil crusting / soil compaction ✓
- B – acidification / nutrient imbalance / available nutrient loss ✓
- C – reduction in micro-organisms / loss of carbon / pollution by natural waste products / overgrowth of micro-organisms ✓ (3)

2.7.2 Name TWO agricultural practices that cause soil degradation

- Use of heavy machinery ✓
- Overuse of chemical substances ✓
- Overgrazing ✓
- Monoculture ✓
- Poor cultivation practices ✓
- Over irrigation ✓
- Continuous cultivation at the same depth ✓ (Any 2) (2)

2.7.3 Recommend TWO control measures for surface water run-off

- Mulching ✓
- Cover crops ✓
- Contour ploughing ✓
- Terracing ✓
- Zero cultivation ✓
- Contour ridges / walls ✓
- Use controlled irrigation ✓ (Any 2) (2)

2.8 Precision farming**2.8.1 Identify intensive production method**

- Precision farming ✓ (1)

2.8.2 Identify technological equipment used when planting crops

- Global positioning system (GPS) ✓
- Geographical information system (GIS) ✓ (2)

2.8.3 Discuss TWO factors that determine the type of technology

- The income potential of the farming enterprise ✓ – higher income farms can afford to purchase expensive technology ✓
- Nature of the farming method / type of crop ✓ – intensive or high input systems require more advanced technology ✓
- Scale of the farming system ✓ – large scale farming systems require more machinery and technology ✓
- The topography of the farm ✓ – technology should suite the area being cultivated ✓ (Any 2 x 2) (4)



2.9 Agritourism marketing and contribution**2.9.1 State TWO ways in which to market agritourism**

- Advertise on different printed media ✓
- Promotions ✓
- Tour agents ✓
- Advertise on different electronic media platforms ✓
- Radio / TV adverts ✓
- Billboards ✓

(Any 2) (2)

2.9.2 Indicate agritourism contribution to the value of the farm enterprise

- Improvements in facilities and infrastructure ✓
- Increased income ✓
- Diversification reduces risk ✓
- Increase marketing value of the land ✓

(Any 2) (2)
[50]

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

3.1 Business plan

3.1.1 Name mission statement

- Short-term goals ✓ (1)

3.1.2 Name vision statement

- Long-term goals ✓ (1)

3.1.3 Discuss reasons for developing a business plan

Business plan:

- Tests feasibility ✓ of the business idea ✓
- Test the viability ✓ of the business idea ✓
- Determining financial needs ✓ by compiling budgets ✓
- Application for capital ✓ from financial institutions ✓
- Determining daily activities ✓ as part of the production plan ✓
- Position of the business – current – future ✓ and how to get there ✓
- Gain knowledge of marketing ✓ that is relevant to the enterprise ✓

(Any 2 x 2) (4)

3.2 State the aspects for market research

- Marketing dynamics, patterns and seasonality ✓
- Customers – demographics ✓
- Market segments ✓
- Target markets ✓
- Consumer needs / preferences / decisions ✓
- Similar products – or competition in the market ✓
- Current sales in the industry ✓
- Benchmarks in the industry ✓
- Reliable suppliers ✓

(Any 3) (3)



3.3 Scenario – Moringa Trees**3.3.1 Identify the characteristics of an entrepreneur from the scenario**

- Wants to start own business ✓
- Visionary / creative ✓
- Able to recognise business opportunity ✓
- Investigative skills ✓
- Introduces new / unique products ✓
- Prepared to take risks ✓

(Any 3) (3)

3.3.2 Motivate the reason for value adding opportunity

- “can be cooked or crushed” ✓
- “can be stored as dried powder for several months without loss of nutritional value” ✓

(Any 1) (1)

3.3.3 Indicate diversification or specialisation

- Diversification ✓

(1)

Motivate

- The farmer, farms with grain and plants Moringa trees, which means the farmer is diversifying. ✓
- The farmer, farms with two different crops ✓

(Any 1 motivation) (1)

3.4 State THREE advantages of product specialisation

- Less expenses in purchasing of other implements ✓
- Uncomplicated management ✓
- Fixed markets ✓
- Increase productivity ✓

(Any 3) (3)

3.5 Name FOUR management principles

- Planning ✓
- Organisation ✓
- Motivation / Leadership ✓
- Coordination ✓
- Control ✓

(Any 4) (4)

3.6 Give advantages of belonging to product organisations

Product organisations:

- Negotiates credit terms with banks on behalf of farmers ✓
- Organises input and negotiates discount on behalf of farmers ✓
- Organises markets for farmers ✓
- Provides technical / scientific advice to farmers ✓
- Provides market information ✓
- Advertises and promotes agricultural products ✓

(Any 3) (3)



3.7 Supply and demand**3.7.1 Determine the equilibrium price**

- R80 ✓/kg ✓

OR

- Eighty rand ✓ per kilogram ✓ (✓ for monetary value and ✓ for unit) (2)

3.7.2 Explain the importance of the equilibrium price

- At equilibrium price what the buyers want to pay is exactly the same price the seller is prepared to accept, ✓ that makes the price sustainable ✓
- This is the only sustainable price ✓ where supply is equal to demand ✓
- This price is sustainable, ✓ because the number that consumers want to buy is equal to the number provided by producers ✓
- At this price there will be no surplus ✓ or shortage ✓ of the product on the market (Any 1 x 2) (2)

3.7.3 Briefly explain shortage of product

- Consumers buy more when price is low ✓
- Farmers supply / market less of a product when price is low ✓
- Political instability / political factors can prevent marketing ✓
- Natural disasters / hail / floods / drought can destroy produce ✓
- Seasonal yields lead to shortages in other seasons ✓
- Logistical / transport / import problems can cause delays in marketing ✓ (Any 2) (2)

3.7.4 Suggest solutions for the prevention of shortages in agricultural products

- Modify planting or harvesting times, ✓ to supply sufficient products during periods of short supply ✓
- Increase inputs ✓ to obtain more product ✓
- Planting in different regions ✓ to have different harvesting times ✓
- Plant different cultivars ✓ that produce higher yields ✓
- Make use of greenhouses ✓ to produce more products throughout the year ✓ (Any 1 x 2) (2)

3.8 Choose a word from the word list for marketing chain

- 3.8.1 product ✓ (1)
- 3.8.2 consumer ✓ (1)
- 3.8.3 higher ✓ (1)
- 3.8.4 competitors ✓ (1)
- 3.8.5 profit ✓ (1)



3.9 Marketing at an auction

3.9.1 Explain choosing auction instead of internet marketing

- The farmer can see the real live animal ✓ as opposed to pictures only ✓
- The farmer can see the animal in action ✓ - walking around, getting an idea of its temperament, etc. ✓
- This animal can be compared to other animals on auction ✓ and the farmer can make the best purchase ✓
- Pictures on the internet ✓ may be electronically modified ✓
- The financial transaction is safe, ✓ the farmer gets the animal paid for ✓

(Any 2 x 2) (4)

3.9.2 Calculate money received from selling price

- Money received = Selling price – (Selling price x Auction fee %)
 = R50 000,00 – ✓ (R50 000,00 x 5% ✓) ✓
 = R50 000,00 – (R2 500,00)
 = R47 500,00 ✓

OR

- Auction costs = Selling price x Auction fee
 = R50 000,00 x 5% ✓
 = R2 500,00 ✓

Money received = Selling price – Auction costs
 = R50 000,00 – ✓ R2 500,00 (CA)
 = R47 500,00 ✓

OR

- Money received = Selling price x auction % received
 = R50 000,00 x ✓ 95% ✓ ✓
 = R47 500,00 ✓

(4)



3.10 Health and Safety Act**3.10.1 Name the Act**

- Occupational Health and Safety Act ✓ (1)

3.10.2 State seasonal or occasional worker and motivate

- Seasonal worker ✓
- Seasonal worker only works for the pre-harvesting period each season/year ✓

OR

- Occasional worker ✓
- An occasional worker starts a specific project on the farm, finishes it and does not return seasonally or yearly ✓

(can only be ONE choice) (2)

3.10.3 State ONE improvement for protective clothing

- Overall to protect personal clothing instead of an apron ✓
- Ear plugs can also be given ✓
- Full face mask/shield to protect the skin on the face rather than just goggles for the eyes ✓
- Respirator to clear the air rather than just a mask ✓
- Boots rather than shoes ✓

(Any 1) (1)

[50]

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

4.1 Budgets

4.1.1 Describe *whole farm budget*

- Summary of all the different branches / sections ✓
- of the farming enterprise as a whole ✓ (2)

4.1.2 Name important aspects of inputs

- Type of input ✓
- Number/quantity of input needed ✓
- Price of the input ✓
- Time that the input is needed ✓ (Any 3) (3)

4.2 Financial planning

4.2.1 Explain gross profit

- Gross profit is sales(revenue) minus cost of sales ✓✓
- Gross profit is turnover minus direct costs ✓✓
- Gross profit is the selling price of your product minus the cost in producing the product ✓✓ (Any 1 x 2) (2)

4.2.2 Explain net profit

- Net profit is gross profit minus indirect costs ✓✓
- Money left after all expenses are deducted ✓✓ (Any 1 x 2) (2)

4.3 Statements

4.3.1 Name type of statement

- Balance sheet ✓ (1)

4.3.2 Calculate values

- (a) R3 062 000,00 ✓
- (b) R2 712 000,00 ✓
- (c) R350 000,00 ✓ (CA)
- (d) R3 062 000,00 ✓ (4)

4.3.3 Evaluate growing potential

- Business is growing ✓ (1)

Reason

- Net worth increases ✓
- Assets are more than the liabilities ✓
- Owners' equity will grow ✓
- Capital in the bank will grow ✓ (Any 2) (2)



4.3.4 Give a reason for *no farm value*

- The person is renting the farm ✓✓
- The person is not owning the farm ✓✓

(Any 1 x 2) (2)

4.4 Describe type of mechanical records

- Date of service / date when repair was done / frequency of repairs ✓
- Cost of maintenance / service ✓
- Fuel usage for each trip ✓
- Logbook to indicate distance ✓
- Yearly depreciation of the vehicle ✓

(Any 4) (4)

4.5 Name the source documents for livestock farmer

- Invoices ✓
- Receipt ✓
- Bank statements ✓
- Diary ✓
- Debit notes ✓
- Credit notes ✓
- Cheques ✓
- Electronic funds transfer (EFT) notice ✓
- Deposit slips ✓
- Inventory ✓

(Any 4) (4)

4.6 Indicate safety measure for electronic payments

- Use validated websites ✓
- Use a unique personal identification number (PIN) ✓
- Use your personal biometrics / features for recognition ✓
- Use a Username that corresponds with the password ✓
- Use a Password according to stipulated guidelines ✓
- Install antivirus and phishing program ✓
- Report any suspicious transactions on your account ✓
- Logoff after doing transactions ✓

(Any 4) (4)

4.7 Name aspects when grading animal raw products

- Mass / Size ✓
- Fat content ✓
- Length ✓
- Appearance – fineness / crimp / colour / shape / staple formation / bruising ✓
- Age ✓
- Quality - clean yield / tenderness / tensile strength ✓

(Any 4) (4)



4.8 Discuss the disadvantages of processing

- Difficult to obtain capital ✓ for new industry or expansion ✓
- New products must compete ✓ with established products ✓
- Knowledge and expertise ✓ of farmer not adequate ✓
- Add more management work for the farmer ✓ due to new developments ✓
- Buildings can take up areas for production ✓ thus less produce ✓
- Expensive ✓ if the farmer must obtain a loan to expand ✓
- Products may lose taste / nutrition / appearance ✓ due to processing process ✓
- Processing is time consuming, ✓ that will lead to increases in cost ✓

(Any 2 x 2) (4)

4.9 Name the aspects that influence the shape of packaging material

- Type of material ✓
- Purpose of the container ✓
- Type / shape / size of product ✓
- Cost implications ✓
- Equipment needed ✓
- Is the packaging custom made ✓
- or form at packaging line ✓

(Any 3) (3)

4.10 Give the reasons for labelling products

- Identifying product ✓
- Contain specific information ✓
- To get consumer confidence in the product ✓
- To inform the consumer / allergies ✓
- To attract attention to the product ✓
- To assist stock keeping ✓
- Legal requirements ✓
- Identifying company / traceability ✓

(Any 4) (4)

4.11 Describe the advantages of good agricultural practices

- Financial benefit to producer ✓
- Consumer gets a quality product ✓
- Possible spread of pests and diseases is eliminated ✓
- Chemical pollution is eliminated ✓
- Possible allergies are avoided ✓
- Products causing diseases are limited ✓
- Cost of handling bad products is limited ✓

(Any 4) (4)

[50]

TOTAL SECTION B: 150
GRAND TOTAL: 200

