



1.1	1.1.1	B ✓✓	(10 x 2)	(20)
	1.1.2	A ✓✓		
	1.1.3	B ✓✓		
	1.1.4	C ✓✓		
	1.1.5	A ✓✓		
	1.1.6	A ✓✓		
	1.1.7	C ✓✓		
	1.1.8	B ✓✓		
	1.1.9	D ✓✓		
	1.1.10	D ✓✓		
1.2	1.2.1	F ✓✓	(5 x 2)	(10)
	1.2.2	G ✓✓		
	1.2.3	B ✓✓		
	1.2.4	H ✓✓		
	1.2.5	A ✓✓		
1.3	1.3.1	Surplus/oversupply/overproduction ✓✓	(5 x 2)	(10)
	1.3.2	Price fluctuation ✓✓		
	1.3.3	Genetics ✓✓		
	1.3.4	Prepotency ✓✓		
	1.3.5	Recessive gene ✓✓		
1.4	1.4.1	Equilibrium ✓	(5 x 1)	(5)
	1.4.2	Land ✓		
	1.4.3	Phenotype ✓		
	1.4.4	Internal ✓		
	1.4.5	Progeny ✓		

2.1

- 2.1.1 Co-operative ✓ (1)
- 2.1.2
- Services co-operatives ✓
 - Financial co-operatives ✓
 - Commercial/consumer co-operatives ✓
 - Production co-operatives ✓
 - Marketing co-operatives ✓
 - Purchasing co-operatives ✓ (Any 2) (2)
- 2.1.3
- Long term strategy that involves all activities associated with production, pricing, promoting and distribution ✓ (1)
- Exchanging goods for cash ✓ (1)
- 2.1.4
- Perishability/spoilage ✓
 - Transportation ✓
 - Storage ✓
 - Poor infrastructure ✓
 - Accidents ✓
 - Lack of capital ✓
 - Lack of control over production ✓
 - Low value in relation to high volume ✓
 - Wide distribution of products ✓
 - Theft ✓
 - Seasonal changes/fluctuation ✓
 - Standardisation ✓
 - Competition ✓
 - Legislation ✓ (Any 2) (2)

2.2

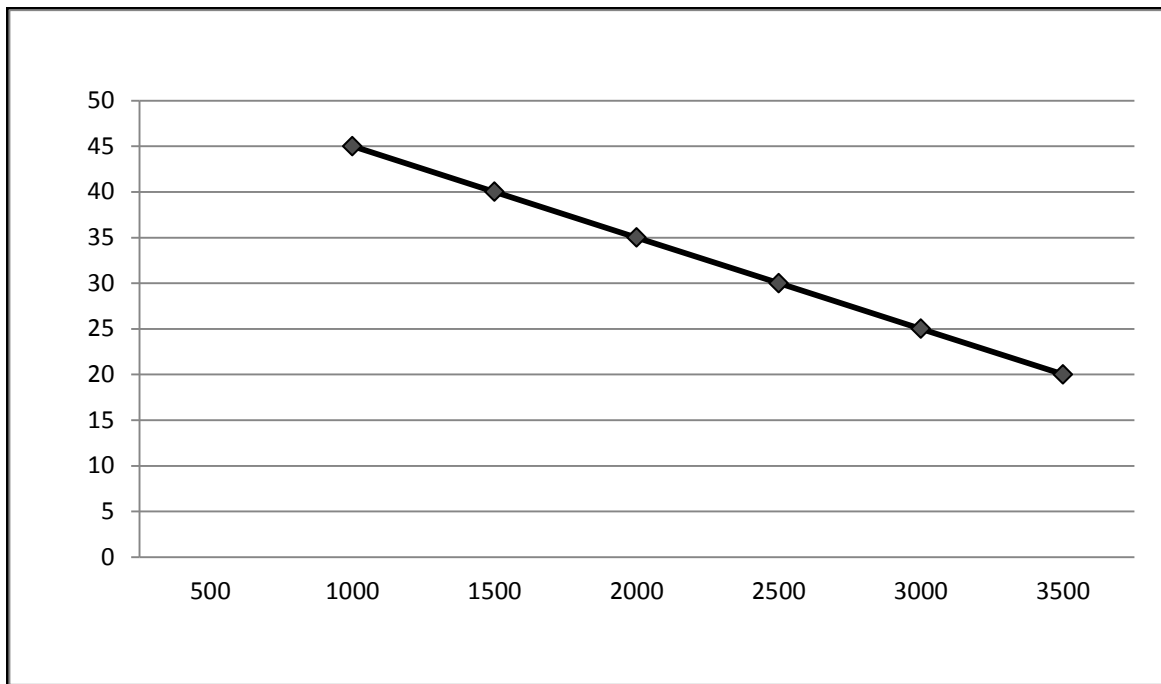
- 2.2.1
- Graph B ✓ (1)
- Graph A ✓ (1)
- 2.2.2
- A change in price resulted in no/little change in demand ✓ (1)
- A change in price resulted in a huge change in demand ✓ (1)

2.2.3

- Nature of the produce ✓
 - Availability of substitute products ✓
 - Proportion of consumer's budget spent on the item ✓
 - Time period ✓
- (Any 3) (3)

2.3

2.3.1



- Correct heading ✓
 - X-axis: Correctly calibrated with label (Quantities) ✓
 - Y-axis: Correctly calibrated with label (Price) ✓
 - Correct units (R and Pockets) ✓
 - Line graph ✓
 - Accuracy ✓
- (6)

2.3.2

The higher the price of the fruit ✓ the lower the quantities of fruit demanded ✓

The lower the price of the fruit ✓ the higher the quantities of fruit demanded ✓
(Any 1) (2)

2.4

2.4.1

- To test the feasibility of the business ✓
- To check the economic viability ✓
- To determine the financial needs ✓
- To secure funding ✓
- To guide operations/outlines roles and responsibilities ✓
- Provides time frames ✓
- Provides information regarding the external/internal business environment ✓
- Ensuring effective business management ✓
- To gain knowledge about marketing opportunities/competitors ✓
- To reposition the business to deal with market changes ✓
- To allow a farmer to foresee problems/risk ✓
- Helps to define goals ✓
- Provides direction and focus ✓

(Any 2) (2)

2.4.2

- Title/cover page ✓
- Summary of enterprise details/address/name ✓
- Summary of business plan/strategy/objectives ✓
- Overview/profile of the business/management team ✓
- Production plan ✓
- Management plan/time management plan ✓
- Sales and marketing plan ✓
- Financial plan ✓
- Reasons for success of business ✓
- Human resource plan ✓
- Organisational structure ✓
- SWOT analyses ✓
- Potential risks ✓

(Any 3) (3)

2.4.3

- Insufficient research ✓
- Too generic ✓
- Gaps/incomplete/too much information/vague ✓
- Insufficient technical details ✓
- Unrealistic assumptions/projections ✓
- Incomplete plan/financials ✓
- Not highlighting potential competition ✓
- Hiding weaknesses and risks ✓
- Using the incorrect format ✓
- Errors/not authentic ✓

(Any 2) (2)

2.5

2.5.1

- Identifying an opportunity ✓
- Research on what is needed/resource mobilisation ✓
- Production and profit making ✓ (3)

2.5.2

- Innovation/creativity ✓
- Confidence ✓
- Identify opportunity ✓
- Drive/passion/need for achievement ✓
- Perseverance ✓
- Leadership ✓
- Commitment ✓
- Hardworking ✓
- Motivation ✓
- Flexible ✓
- Market driven ✓
- Knowledgeable ✓
- Risk taker ✓
- Sound technical/operational knowledge ✓
- Interpersonal relations ✓
- Punctuality ✓ (Any 3) (3)

3.1

3.1.1

Law of diminishing return ✓ (1)

3.1.2

When land reaches its maximum point of production ✓ it cannot produce beyond its production potential ✓ (2)

3.1.3

- Improve soil fertility ✓
- Water management ✓
- Change in cropping practices and farming systems ✓
- Restoring land potential ✓
- Farm land more efficient/consolidation of uneconomic units ✓
- Adapt to scientific methods/technology ✓ (Any 2) (2)

3.1.4

- Source of raw materials ✓
- Provides space ✓
- Food security ✓
- Source of minerals ✓
- Can be used as a collateral ✓ (Any 3) (3)

3.2

3.2.1

- Permanent/full time ✓ (1)
- Temporary/part time ✓ (1)

3.2.2

- Poor working conditions ✓
- Long working hours ✓
- Exposure to harsh conditions ✓
- Lack of career opportunities/education and training ✓
- Physically demanding ✓
- Poor wages ✓
- Poor living conditions ✓
- Industrial competition ✓ (Any 2) (2)

3.2.3

- Provision of better working conditions ✓
- Reasonable working hours ✓
- Provision of career opportunities/promotion ✓
- Better/living wages ✓
- Provision of education/training/skills development ✓
- Provision of proper housing ✓
- Health schemes/benefits ✓
- Bonuses ✓
- Recognition for good work done ✓ (Any 2) (2)

3.3

- 3.3.1 Skills Development Act (97 of 1998) ✓ (1)
- 3.3.2 Occupational Health and Safety Act (85 of 1993) ✓ (1)
- 3.3.3 Compensation for Occupational Injuries and Diseases Act (130 of 1993) ✓ (1)

3.4

- 3.4.1 Enterprise budget/budget ✓ (1)
- 3.4.2 Showing estimates of the expected income and expenditure of the enterprise ✓ (1)
- 3.4.3
- $$\begin{aligned}
 \text{Net income} &= \text{Income} - \text{Expenditure} \checkmark \\
 &= \text{R}77\,500 - (\text{R}143\,564 \checkmark) \checkmark \\
 &= - \text{R}66\,064 \checkmark
 \end{aligned}
 \quad (4)$$
- 3.4.4 Loss/deficit/financial problems ✓ (1)

- 3.4.5
- Reduce the costs ✓
 - Change to an enterprise with a lower running costs ✓
 - Sell at a higher price/better marketing ✓ (Any 2) (2)
- 3.5
- 3.5.1
- Technical/production ✓
 - Financial ✓
 - Market and price ✓
 - Political/policy risks ✓ (Any 3) (3)
- 3.5.2
- Conceptual ✓
 - Analytical ✓ (Any 1) (1)
- 3.5.3
- Insuring against risks ✓
 - Risk sharing ✓
 - Diversification ✓
 - Processing/value adding ✓
 - Flexibility ✓
 - Future contracts/hedging ✓ (Any 2) (2)
- 3.5.4
- Planning ✓
 - Implementation ✓
 - Organisation ✓
 - Coordination ✓
 - Decision making ✓
 - Control ✓ (Any 3) (3)
- 4.1
- 4.1.1
- Female ✓ (1)
- The parent with R for red colour/indicated by RR ✓ (1)
- 4.1.2
- (a) 3 red 1 black/3 1 ✓ (1)
- (b) 1 2 1 ✓ (1)
- (c) Red ✓ (1)

4.2

4.2.1

- Hair colour ✓ (1)
- Length of hair ✓ (1)

4.2.2

bb ✓ ll ✓ (2)

4.3

4.3.1

Genotype ✓ (1)

Feeding/nutrition ✓ (1)

4.3.2

The higher the level of feed restrictions ✓
the lower the average weight gain ✓

The lower the level of feed restrictions ✓
the higher the average weight gain ✓ (Any 1) (2)

4.3.3

There is no effect of genotype and feeding ✓
on growth performance ✓

Genotype and feeding ✓ reduce growth performance ✓

Genotype and feeding ✓ increase growth performance ✓ (Any 1) (2)

4.4

4.4.1

Crossbreeding ✓ (1)
Inbreeding ✓ (1)

4.4.2

A ✓ (1)

4.4.3

- Loss of vigour/performance/inbreeding depression ✓
- Loss of fertility ✓
- Genetic variation declines ✓
- Increase the lethal genes which can result in death ✓
- Reduced vitality ✓
- Fixation of undesired genes ✓
- Expert knowledge required ✓
- Less resistance to diseases ✓
- Poor adaptation to the environment ✓
- Undesirable characteristics can be bred into the offspring ✓
- Deformed animals ✓ (Any 2) (2)

4.4.4	C ✓	(1)
4.5		
4.5.1	Process of choosing/identifying specific individuals ✓ for their desired characteristics/traits ✓	(2)
4.5.2	Natural ✓	(1)
4.5.3	• Growth ✓ • Health/disease resistance ✓ • Fertility ✓ • Body conformation ✓ • Production types ✓ • Breeding standards ✓	(Any 3) (3)
4.5.4	Choosing animals with superior characteristics for breeding ✓ Choosing animals that can adapt/produce in a specific area ✓	(1) (1)
4.6		
4.6.1	• Micro-injection ✓ • Gene gun/Biolistics ✓ • Bacterial carriers/Agro-bacterium tumefaciens ✓ • Electroporation ✓ • Recombinant DNA ✓ • Calcium phosphate precipitation ✓ • Gene silencing ✓ • Gene splicing ✓ • Lipofection ✓ • Viral carriers ✓	(Any 2) (2)
4.6.2	• Health concerns/allergies ✓ • Not enough research has been done ✓ • Expensive ✓ • Super weeds develop/reduced effectiveness of pesticides ✓ • Religious/ethical beliefs ✓ • Reduced biodiversity ✓ • Gene transfer to non-target species ✓ • Possibility of mutations ✓	(Any 2) (2)

4.6.3

- Resistance to herbicides/insects/pests ✓
- Resistance to harsh environmental conditions ✓
- Plants have a lower water requirement ✓
- Improved quality/taste/flavour/nutritional value ✓
- Shelf life ✓
- Increased yields ✓

(Any 2) (2)