



GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

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**GAUTENG DEPARTMENT OF EDUCATION
PROVINCIAL EXAMINATION
JUNE 2016
GRADE 11**

**ECONOMICS
(PAPER 2)**

MEMORANDUM

16 pages

GAUTENG DEPARTMENT OF EDUCATION
PROVINCIAL EXAMINATIONECONOMICS
(PAPER 2)

MEMORANDUM

SECTION A

30 MARKS – 20 MINUTES

QUESTION 1

1.1 MULTIPLE-CHOICE QUESTIONS

- 1.1.1 B (perfect and monopolistic)✓✓
 1.1.2 B (normal profit)✓✓
 1.1.3 A,B,C (intermediate goods)✓✓
 1.1.4 A, C (oligopoly)✓✓
 1.1.5 A (marginal)✓✓
 1.1.6 B(variable costs)✓✓
 1.1.7 C (smoking harms the health of passive smokers)✓✓
 1.1.8 A (opportunity cost)✓✓ (8x2) (16)

1.2 MATCHING ITEMS

- 1.2.1 F – sales maximisation✓
 1.2.2 A – the changes in the price of one product and the resulting change in the demand for another product.✓
 1.2.3 H – Normal Profit✓
 1.2.4 $G - \frac{TR}{Q} = AR$ ✓
 1.2.5 B – $TFC + TVC$ ✓
 1.2.6 D – change in price has no effect on supply ✓
 1.2.7 C – price✓
 1.2.8 E – The only supplier of a product✓ (8x1) (8)

1.3 GIVE ONE TERM

- 1.3.1 The long run✓
 1.3.2 Explicit costs✓
 1.3.3 Monopoly✓
 1.3.4 Cartel✓
 1.3.5 Monopolistic competition✓
 1.3.6 Perfect market / unregulated market ✓ (6x1) (6)

TOTAL SECTION A: 30

SECTION B

Answer TWO of the THREE questions in this section in the ANSWER BOOK.

QUESTION 2**40 MARKS – 30 MINUTES**

- 2.1 2.1.1 **Give any TWO examples of monopolistic markets.**
- Restaurants✓
 - Hairdressers✓
 - Petrol Stations✓
- (Accept any other relevant answer.) (2x1) (2)
- 2.1.2 **What do you understand by the *law of diminishing returns*?**
- The Law of diminishing returns* states that as more of a variable input is added to a fixed input, the returns from the variable input will decrease. ✓✓ (1x2) (2)
- (Accept any relevant response)
- 2.2 **DATA RESPONSE**
- 2.2.1 **List any TWO advantages of competition as mentioned in the article.**
- Give people options. ✓✓
 - There is comparison of prices ✓✓
 - Efficient services✓✓
 - Reduce theft✓✓
- (Accept any relevant answer) (2x2) (4)
- 2.2.2 **Define a *monopoly*.**
- A monopoly is a single seller in the market✓✓ (only supplier)
 - It is an industry in itself ✓✓
 - The monopoly does not allow any substitutes. ✓✓
- (Accept any characteristic of the Monopoly)
(2x1) (2)
- 2.2.3 **Why would you describe the taxi industry in South Africa as a monopoly? Explain your answer.**
- The taxi industry is the largest privately-owned transport organization ✓✓
 - The taxi industry dominates the private transport industry, and does not easily allow other transport services, such as bus services to infringe on its market.✓✓
- (Accept any other relevant answer.)
(Allocate marks if the response is in the negative)
(2X2)(4)

2.3 **Study the graphs and answer the questions that follow:**

2.3.1 **Define *complementary products*.**

- Complementary products are different products that are used together at the same time to satisfy a need or want. ✓✓ (2)

2.3.2 **Why is it important for the producer to understand the relationship between complementary goods?**

- Enables producers to predict what impact a change in the price of compliments will have on the demand for their product. ✓✓
- They will then be able to implement measures to counteract the effect of price changes in an effort to try and maximize their profits. ✓✓
- There are cost-effective measures like producing more output with the same amount of input. ✓✓ (2x2) (4)

2.3.3 **What is the effect on Product X if the Price of Product Y decreases?**

- The supply will decrease as the supply shifts to the left. ✓✓
- The quantity of product X will decrease from Q0 to Q1. ✓✓
- Demand for product X will increase ✓✓
- The price of product X will increase from PO to P1 ✓✓ (Any 2x2) (4)

2.4 **Briefly discuss the characteristics of *utility*.**

- **Satisfaction is abstract because utility cannot be measured.**✓
- There is no standard way to measure someone's satisfaction or utility, so economists sometimes simply assign it a value and call the measurement utils.✓✓
- **Utility is subjective because it differs from person to person.**✓
- The satisfaction that two people get from consuming the same product differs depending on personal preferences e.g. some people will find that ice cream has a high utility, while others would prefer to have cold drinks.✓✓
- **Utility differs from one situation to another, from time to time.**✓
- Warm clothes provide satisfaction in winter as opposed to summer.✓✓
- **Utility differs from place to place.**✓
- A swimming costume will be satisfying at the beach but not in the classroom. ✓✓

(4x2) (8)

2.5 **Explain how the price mechanism works in conditions of perfect markets.**

- At the equilibrium price, demand and supply are equal and there is no shortage or surplus.✓✓
- If the price rises, consumers will buy fewer goods and the quantity demanded will decrease / drop.✓✓
- This will result in a surplus in the market as supply exceeds demand.✓✓
- Producers will then have to reduce their prices and the price returns to equilibrium.✓✓
- If the price drops below equilibrium, demand will increase and there will be a shortage in the market as demand exceeds supply. ✓✓
- This will cause the price to rise again and it returns to equilibrium.✓✓
- The firm is the price price taker in the perfect market✓✓
- No individual producers can influence the market price✓✓
- Individual producers cannot sell above or below the market price. ✓✓

Any (4x2)

(8)
[40]

QUESTION 3

40 MARKS – 30 MINUTES

- 3.1 3.1.1 **List TWO objectives of businesses.**
- To make a profit✓
 - Survival of the business✓
 - Maximizing revenue / profit✓
 - Maximizing sales✓
 - Setting targets for growth✓
 - Improve efficiency of production✓
 - Increase market share✓
 - Improved worker satisfaction✓
- (Any 2) (2x1) (2)
- 3.1.2 **What is meant by excess demand?**
- It is a situation in which the market demand for an item is greater than its market supply thus causing its market price to increase. ✓✓
- (1x2) (2)
- 3.2 **Study the cartoon and answer the questions that follow.**
- 3.2.1 **Indicate which market structure is depicted in the cartoon**
- monopolistic competition✓✓
- (2)
- 3.2.2 **Explain the meaning of the term *chains* as used in the cartoon.**
- A chain store is one of a series of stores owned by one company and selling the same goods.✓✓
 - The cartoonist is indicating that consumers are forced to accept the price✓✓
 - (Chained to) these supermarkets by the system of market capitalism which exploits the consumers ✓✓
(Accept any other relevant answers.)
- (2)
- 3.2.3 **How does the Competition Act protect consumers? Explain your answer.**
- The Act does not allow companies to use restrictive trade practices, such as price fixing, ✓✓ controlling output or dividing the market between themselves (colluding) ✓✓, or exploit consumers with high prices. ✓✓
- (2)
- 3.2.4 **What are the factors that influence the consumption patterns of the consumer?**
- The marginal utility of items for the consumer✓✓
 - The price of the goods / income / seasonal factors / fashion changes / preference and tastes ✓✓
(Any other relevant answer)
- (2x2) (4)

3.3 DATA RESPONSE

3.3.1 What is meant by $MC = MR$?

- Where profit is maximized / point of profit maximization ✓✓
- Break- even point ✓✓
- Revenue is equal to cost ✓✓

(Accept any other relevant answer)

(2)

3.3.2 Define the term *marginal cost*.

- Additional cost of producing another unit ✓✓

(2)

3.3.3 Calculate the values of A, B and C.

- $A = 48$ ✓✓
- $B = 4$ ✓✓
- $C = 12$ ✓✓

(3x2)

(6)

3.4 Differentiate between the concepts *absolute advantage* and *comparative advantage*.**Absolute Advantage:**

- Refers to the ability of a country to produce more of an item or service than its competitors can produce, using the same amount of resources ✓✓
- Developed countries with their large capital resources have absolute advantage over developing countries. ✓✓
- E.g. SA produces gold at an absolute advantage. ✓✓ (Max.4)

Comparative advantage:

- Refers to the ability of a country to produce the same output using fewer resources.
- It occurs when a country specializes in a product that it can make more efficiently, compared to other products. ✓✓
- Countries benefit more by producing and exporting goods they can produce more efficiently. ✓✓
- E.g. both SA and Brazil can produce maize and coffee at a comparative advantage. ✓✓ (Max.4) (8)

3.5 **Compare the characteristics of monopolistic competition and oligopolies.**

- Monopolistic competition is a market structure in which several or many sellers ✓✓ each produce a similar type of item or service but the products are slightly different, ✓✓ such as computer games, cell phones or motor cars. ✓✓ Each producer can set its own price ✓✓ and quantity without affecting the marketplace as a whole.
- An Oligopoly has a small number of firms (few) ✓✓ that control all or a large majority of the market. They all make similar products. ✓✓ Each producer makes enough of the total output to be able to influence the price ✓✓ and the quantity supplied.
(Accept any other relevant answer)

(2x4)

(8)

[40]**QUESTION 4****40 MARKS – 30 MINUTES**

4.1 4.1.1 **State TWO types of monopolies.**

- Natural Monopoly ✓
 - Artificial Monopoly ✓
 - Local Monopoly ✓
 - Legal Monopoly ✓
 - Duo Monopoly ✓
- (Accept any other)

(2x1)

(2)

4.1.2 **What will the producer do if total costs exceed total revenue?**

- He will cut back on production up to the point where the total revenue exceeds total cost. ✓✓
- Produce goods where marginal revenue is equal to marginal cost (MR = MC) ✓✓
- The producer can shut down if it cannot cover its average variable costs.

(1x2)

(2)

4.2 Study the graphs and answer the questions that follow.

4.2.1 Define the concept of *elasticity of demand*.

- The responsiveness of quantity demanded to changes in price ✓✓ (2)

4.2.2 Why is the price elasticity of demand important to producers?

- Tells the producer that for every action there is a reaction. ✓✓
- By studying price elasticity of demand, we can predict what the change in price will be for the producers. ✓✓
- Price elasticity of demand is useful to help businesses decide how to increase their total revenue. ✓✓
- To increase its total revenue the producer can (a) increase the price to get more revenue per product and (b) decrease the price to increase the quantity sold ✓✓
- If the buyers are sensitive to the price (elastic demand), they will buy more if the price decreases, so the producers should decrease the price. ✓✓
- If the buyers are not sensitive to price (inelastic demand) they will not buy much less even if the price goes up, so the producers should increase the price ✓✓
- To increase sales, increase the price when the demand is inelastic, or decrease the price when the demand is elastic. ✓✓
- Producers want to know how sensitive the market supply is to a change in the price of the product. ✓✓ (Any 2x2) (4)

4.2.3 Distinguish between the types of elasticity of demand in the graphs. Explain your answer.

- **Graph A:** A % change in the price leads to a greater % change in the quantity demanded. ✓✓
Relative elastic ✓ (2)
- **Graph B:** A % change in the price leads to a smaller % change in the quantity demanded. ✓✓
Relative inelastic ✓ (2)

√
4.3

DATA RESPONSE4.3.1 **Define *marginal utility*.**

Marginal utility is the extra satisfaction that is gained by consuming a product. ✓✓

(2)

4.3.2 **Identify the point at which the consumer reaches maximum utility.**

- Unit 4 ✓✓
- The point where marginal utility is zero and total utility is 34 ✓✓ (Any 1x2)(2)

4.3.3 **Explain what happens to total utility when marginal utility becomes negative.**

Total utility decreases ✓✓

(2)

4.3.4 **Give the values of A to D.**

- * A = 15 ✓
- * B = 12 ✓
- * C = 0 ✓
- * D = 31 ✓

(4)

4.4 **Explain FOUR reasons for economies of scale.**

- An increase in the production process could lead to resource specialisation. ✓✓
- Advanced technology such as computers could be used, together with highly skilled workers. ✓✓
- A business could expand its productive capacity, such as car assembly plants. ✓✓
- Businesses could experience a reduction in unit costs – larger profit levels. ✓✓

(Accept any other relevant answers)

(4x2)

(8)

- 4.5 Calculate the cross price elasticity of demand for the following and indicate whether the goods are complements or substitutes. (Show all calculations.)

The price of apples increases by 20 % and the quantity of pears demanded increases by 10 %.

$$X_{ed} = \frac{\% \Delta Q_d \text{ good X (pears)}}{\% \Delta P \text{ good Y (apples)}} \checkmark \checkmark$$

$$= \frac{10\%}{20\%} \checkmark \checkmark$$

$$= 0.5 \checkmark \checkmark$$

\therefore Goods are substitutes $\checkmark \checkmark$

(8)
[40]

TOTAL SECTION B: 80

SECTION C

Answer any ONE of the two questions from this section in the ANSWER BOOK.

STRUCTURE OF ESSAY	MARK ALLOCATION
Introduction	Max. 2
Body: Main part: Discuss in detail / In-depth discussion / Examine / Discuss / Analyse / Compare / Evaluate / Distinguish / Explain / Assess / Debate.	Max. 26
Additional part: Give own opinion / Critically discuss / Evaluate / Critically evaluate / Draw a graph and explain / Use the graph given and explain / Complete the given graph / Calculate / Deduce / Compare / Explain / Distinguish / Interpret / Briefly debate / How? / Suggest	Max. 10
Conclusion Any relevant higher order conclusion that should include: * A brief summary of what has been discussed / analysed without repeating facts already mentioned in the body. * An opinion or valued judgement on the facts discussed. * Additional support information to strengthen the discussion / analysis. * A contradictory viewpoint with motivation, if so required. * Recommendations	Max. 2
TOTAL	40

QUESTION 5

40 MARKS – 40 MINUTES

- Discuss in detail the characteristics of perfect markets. (26 marks)
- Analyse and explain any TWO types of profit. (10 marks)

INTRODUCTION

Perfect markets are markets where neither the individual producer, nor the individual consumer has an impact on the price. ✓✓

There is no preference to where one buys or sells the product, because all the products are the same. ✓✓

(Accept any relevant introduction.)

(Max. 2)

BODY

MAIN PART

Characteristics of perfect markets

1. **Large number of buyers and sellers** ✓
 - No individual buyer or seller can influence the price / have no control over the price of goods / all businesses are Price Takers ✓✓
2. **Products are homogeneous** ✓
 - Products are identical / the same type, quality and appearance. ✓✓
3. **The market is impartial and impersonal.** ✓
 - No seller has an advantage over another; buyers do not mind from whom they are buying. ✓✓
4. **Freedom of entry and exit** ✓
 - Suppliers can enter or exit without neither financial nor technological barriers. ✓✓ The market is totally accessible, no legal barriers can hinder the freedom of entry to and exit from the market. ✓✓
5. **Buyers and sellers have complete / perfect knowledge.** ✓
 - Buyers have complete knowledge about the price, quality and availability of goods and services. ✓✓
 - Sellers have complete knowledge about production costs and market opportunities. ✓✓
 - If sellers increase prices, buyers will know and will buy from a supplier still charging lower prices. ✓✓
6. **There is high output and large choice.** ✓
 - Due to many sellers, consumers can shop around and buy from whomever they want. ✓✓
 - There are no shortages because if one seller runs out, plenty of other sellers exist. ✓✓
7. **Unregulated markets** ✓
 - An unregulated market means that the government does not interfere in the market. ✓✓
 - Decisions are left to individual producers and suppliers as well as to buyers. ✓✓

8. No collusion ✓✓

- Occurs when sellers or buyers enter into an agreement / arrangement to limit competition ✓✓
- Collusion does not exist in perfect markets. ✓✓

(Max. 8 marks: sub-headings and examples/Max. 18 marks: content)

(Max. 26)

ADDITIONAL PART

Analyse and explain any TWO types of profit.

- **Accounting profit** ✓

- Also known as total profit ✓✓
- It is the difference between total revenue from sales and total costs. ✓✓
- Accounting profit = revenue minus explicit costs ✓✓

- **Normal profit** ✓

- It is the minimum return required by the owners to continue with the business. ✓✓
- It is the remuneration for entrepreneurship. ✓✓
- It is included in the total cost of production. ✓✓
- When revenue is equal to explicit cost plus implicit costs ✓✓

- **Economic profit** ✓

- It is the extra profit that the business makes. ✓✓
- It is the profit that the business makes in addition to the normal profit. ✓✓
- It is also known as surplus or excess (extra) profit. ✓✓
- Economic profit = revenue minus explicit plus implicit costs ✓✓

(Any 2x5)
(Max. 10)

(10)

CONCLUSION

Perfect markets are really rare and there is a very thin line between a perfect market and monopolistic competition. ✓✓

(Accept any other relevant conclusion.)

(Max. 2)

[40]

QUESTION 6

40 MARKS – 40 MINUTES

“Price elasticity of supply will always be positive, because of the law of supply.”

- Use graphs to explain the following price elasticity of supply.
 - Perfectly inelastic supply
 - Unit elasticity of supply
 - Perfect elastic supply (26 marks)
- Explain the factors influencing price elasticity of supply. (10 marks)

INTRODUCTION

Price elasticity of supply measures how sensitive the market supply is to any change in the price of the product. ✓✓

OR

Price elasticity of supply is the relationship between changes in price and the proportionate changes in the quantity supplied. ✓✓

(Accept any other relevant introduction.)

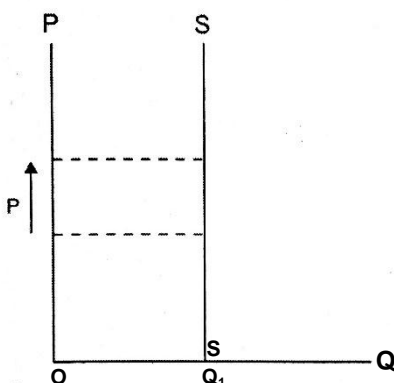
(Max. 2)

BODY

MAIN PART

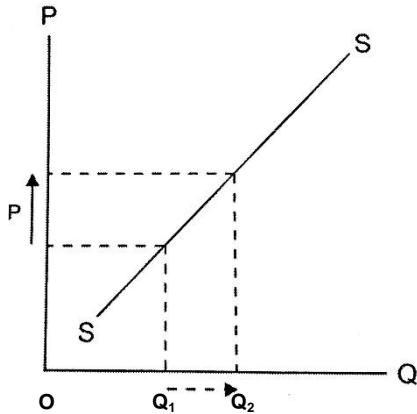
* Perfect inelastic supply

- No matter what happens to the price, the supply remains the same. ✓✓
- E.g.: Even if fans are prepared to pay much more for tickets to a rock concert, the number of seats cannot be increased. (Accept any relevant example.) ✓
- The value of PES is 0. ✓✓



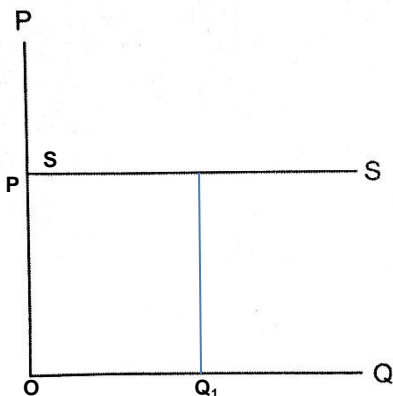
- **Unitary elasticity of supply**

- The change in quantity supplied is exactly the same as the change in price. ✓✓
- E.g.: The demand for fresh orange juice would change if the price went down but probably by the same amount. (Accept any relevant example) ✓
- The value of PES is 1. ✓✓



- **Perfect elastic supply**

- The quantity supplied stays the same no matter how much the price changes. ✓✓
- E.g.: The price of Van Gogh paintings is in millions of dollars but there can be no change in the supply. (Accept any relevant example.) ✓
- The value of PES is ∞ ✓✓✓



Mark allocation for graphs:

1 mark: Price and quantity axes

1 mark: Labelling of s-curve

1 mark: Drawing of s-curve correctly

1 mark: Indicating changes in QS

(Max. 4 marks per graph)

(Max. 26)

ADDITIONAL PART**Factors determining price elasticity of supply**

- **The level of spare capacity**✓
 - If an industry is operating below full capacity, supply will be elastic.✓
 - The industry can produce more by employing more factors of production.✓
- **The level of employment**✓
 - Under full employment, supply will be inelastic.✓
 - Supply can be increased by improving productivity.✓
 - Supply in the domestic market will be elastic if imports are available.✓
- **The ability to store the product**✓
 - Supply will be elastic if the product can be stored easily.✓
 - If the product can be stored easily, supply can be adjusted to changes in price.✓
- **The nature of the product**✓
 - Agricultural products will be inelastic in the short term.✓
 - The supply of agricultural products depends on several factors.✓
 - The supply of mining commodities will also be inelastic.✓
 - It takes a long time to increase the capacity of the mines.✓
 - The supply of manufactured goods will be more elastic.✓
 - It is easier for the manufacturing industries to change the supply of goods.✓
- **Time**✓
 - Time is an important factor affecting elasticity of supply.✓
 - Due to the technical nature of production, supply can be adjusted effectively in the long run.✓✓

(Max. 10)**CONCLUSION**

The key to predicting elasticity of supply is knowing whether the producers are able to increase production.✓✓

The producers' ability to adapt to price changes depends on the cost, availability and mobility of the factors of production. ✓✓

(Accept any other relevant conclusion.)**(Max. 2) [40]****TOTAL SECTION C: 40****TOTAL: 150**