

IB Economics – Government Intervention

1.10 Subsidies



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1.10 SUBSIDIES: STUDENT LEARNING ACTIVITY

Answer the questions that follow.

1. DEFINITIONS

Define the following terms:

[10 marks]

- Producer
- Subsidy
- Costs of production
- Unit of output
- Free market
- Government intervention
- Producer surplus
- Consumer surplus
- Demand curve
- Supply curve
- Market price
- Welfare loss
- Opportunity cost
- Quantity demanded
- Quantity supplied
- Law of demand
- Law of supply
- Subsidy
- Consumer welfare
- Total revenue
- Government expenditure
- Consumer expenditure
- Deadweight loss
- Social surplus
- Competitive free market

2. SHORT-ANSWER QUESTIONS

1. Explain what subsidies are. **[2 marks]**
2. Explain the relationship between subsidies and the laws of demand and supply. **[4 marks]**
3. Outline reasons why governments may grant a subsidy on goods and services. **[6 marks]**

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4. Draw a diagram to show the effect of a subsidy on the market for a good or service. **[2 marks]**
5. Explain the concept of “social welfare” **and** explain how a subsidy will lead to a loss of social welfare. **[2 marks]**
6. Explain the consequences of a subsidy for: **[12 marks]**
 - i. Consumers.
 - ii. Producers.
 - iii. The government.
 - iv. Workers.
 - v. Society as a whole.
 - vi. Foreign producers.
7. Explain why the decrease in price paid by consumers is less than that of any subsidy granted. **[4 marks]**
8. The conservative government of a country is considering a \$12 per kilogram subsidy of rice. **[6 marks]**
 - i. Illustrate the market for rice before and after the subsidy.
 - ii. Analyse the effects of the subsidy on the market for rice.
 - iii. Examine the consequences of the subsidy for key stakeholders.
9. The liberal government of a country is considering a \$5000 per electric car subsidy. **[10 marks]**
 - i. Outline reasons why the government may be considering granting this subsidy.
 - ii. Illustrate the market for electric cars before and after the subsidy.
 - iii. Analyse the effects of the subsidy on the market for electric cars.
 - iv. Examine the consequences of the subsidy for key stakeholders.
 - v. Suggest some possible unintended consequences that the liberal government should consider.
10. The moderate government of a country is considering a \$25.00 per doctor's visit subsidy. **[12 marks]**
 - i. Illustrate the free market equilibrium price and quantity.
 - ii. Illustrate the producer and consumer surpluses that arise in the free market.
 - iii. Using a new diagram, illustrate the equilibrium market price and quantity after the subsidy is granted.
 - iv. Illustrate the producer and consumer surpluses with the subsidy.
 - v. Illustrate the government expenditure on the excise tax.
 - vi. Illustrate the loss of social welfare that arises in the market from the subsidy.
 - vii. Outline **one** advantage **and one** disadvantage to the government that should arise from this subsidy.
11. Good A has the following functions for demand and supply: $Q_d = 60 - 2P$ and $Q_s = -4 + 2P$. The government will soon grant a \$6.00 per unit subsidy. **[20 marks]**
 - i. Plot the demand and supply curves that currently exists in the free market for good A.
 - ii. Derive the equilibrium price and quantity for good A in the free market.

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- iii. Plot the new supply curve that will exist in the market after the subsidy is granted.
- iv. Derive the equilibrium price and quantity for good A in the market after the subsidy is granted.
- v. Identify the price paid by consumers and the price received by producers.
- vi. Calculate the government expenditure on the subsidy.
- vii. Calculate the gain in consumer surplus that arises from the subsidy.
- viii. Calculate the gain in producer surplus that arises from the subsidy.
- ix. Calculate the loss of social welfare that arises from the subsidy.
- x. Identify on your diagram the consumer surplus, the producer surplus, government expenditure and the loss of welfare that arises from the subsidy.

12. Good B has the following functions for demand and supply: $Q_d = 1600 - 200P$ and $Q_s = 600 + 300P$.
The government will soon impose a \$50.00 per unit subsidy. [20 marks]

- i. Plot the demand and supply curves that currently exists in the free market for good B.
- ii. Derive the equilibrium price and quantity for good B in the free market.
- iii. Plot the new supply curve that will exist in the market after the subsidy is granted.
- iv. Derive the equilibrium price and quantity for good B in the market after the subsidy is granted.
- v. Identify the price paid by consumers and the price received by producers.
- vi. Calculate the government expenditure on the subsidy.
- vii. Calculate the gain in consumer surplus that arises from the subsidy.
- viii. Calculate the gain in producer surplus that arises from the subsidy.
- ix. Calculate the loss of social welfare that arises from the subsidy.
- x. Identify on your diagram the consumer surplus, the producer surplus, government expenditure and the loss of welfare that arises from the subsidy.

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3. MULTICHOICE QUESTIONS

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[50 marks]

1.10A Subsidies

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1.10B Subsidies

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