



Cambridge IGCSE™

ECONOMICS

0455/21

Paper 2 Structured Questions

October/November 2021

MARK SCHEME

Maximum Mark: 90

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of **22** printed pages.

PUBLISHED**Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

**Social Science-Specific Marking Principles
(for point-based marking)****1 Components using point-based marking:**

- Point marking is often used to reward knowledge, understanding and application of skills. We give credit where the candidate's answer shows relevant knowledge, understanding and application of skills in answering the question. We do not give credit where the answer shows confusion.

From this it follows that we:

- a** DO credit answers which are worded differently from the mark scheme if they clearly convey the same meaning (unless the mark scheme requires a specific term)
- b** DO credit alternative answers/examples which are not written in the mark scheme if they are correct
- c** DO credit answers where candidates give more than one correct answer in one prompt/numbered/scaffolded space where extended writing is required rather than list-type answers. For example, questions that require *n* reasons (e.g. State two reasons ...).
- d** DO NOT credit answers simply for using a 'key term' unless that is all that is required. (Check for evidence it is understood and not used wrongly.)
- e** DO NOT credit answers which are obviously self-contradicting or trying to cover all possibilities
- f** DO NOT give further credit for what is effectively repetition of a correct point already credited unless the language itself is being tested. This applies equally to 'mirror statements' (i.e. polluted/not polluted).
- g** DO NOT require spellings to be correct, unless this is part of the test. However spellings of syllabus terms must allow for clear and unambiguous separation from other syllabus terms with which they may be confused (e.g. Corrasion/Corrosion)

2 Presentation of mark scheme:

- Slashes (/) or the word 'or' separate alternative ways of making the same point.
- Semi colons (;) bullet points (•) or figures in brackets (1) separate different points.
- Content in the answer column in brackets is for examiner information/context to clarify the marking but is not required to earn the mark (except Accounting syllabuses where they indicate negative numbers).

3 Calculation questions:

- The mark scheme will show the steps in the most likely correct method(s), the mark for each step, the correct answer(s) and the mark for each answer
- If working/explanation is considered essential for full credit, this will be indicated in the question paper and in the mark scheme. In all other instances, the correct answer to a calculation should be given full credit, even if no supporting working is shown.
- Where the candidate uses a valid method which is not covered by the mark scheme, award equivalent marks for reaching equivalent stages.
- Where an answer makes use of a candidate's own incorrect figure from previous working, the 'own figure rule' applies: full marks will be given if a correct and complete method is used. Further guidance will be included in the mark scheme where necessary and any exceptions to this general principle will be noted.

4 Annotation:

- For point marking, ticks can be used to indicate correct answers and crosses can be used to indicate wrong answers. There is no direct relationship between ticks and marks. Ticks have no defined meaning for levels of response marking.
- For levels of response marking, the level awarded should be annotated on the script.
- Other annotations will be used by examiners as agreed during standardisation, and the meaning will be understood by all examiners who marked that paper.

Examiner annotations

	Uncertain what the candidate means – an illogical line of thought
	Benefit of the doubt
	Blank page
	Caret – a word is missing.
	Confused
	Cross

L	Nothing creditworthy
L1	Level 1
L2	Level 2
L3	Level 3
MAX	Maximum mark on one side.
NAQ	NAQ
NE	Not established – a statement made without any support
REP	Repetition
SEEN	SEEN
	Tick – a credit worthy point
TV	Too vague

Question	Answer	Marks	Guidance
1(a)	Calculate, in \$, the total exports of Laos to China in 2017. 1.1832 billion / 1 183 200 000.	1	Accept 1.18 or 1.2 billion.
1(b)	Identify <u>two</u> roles of commercial banks. Helps local entrepreneurs to borrow money (1). Encourages households to save / enables households to save (1).	2	Accept loan / lending
1(c)	Explain how access to seaports may benefit an economy. Enables an economy to take full advantage of international trade / take greater advantage of international trading opportunities (1) enables immigration of skilled workers (1) Can export and import goods (1) goods can be transported more cheaply (than by rail or air / over longer distances) / may encourage specialisation (1) increases consumer choice (1). May encourage investment (1) attract MNCs (1) create economic growth (1)	2	
1(d)	Explain <u>two</u> benefits of the free market reforms introduced by the government of Laos. The free market reforms have enabled Laos to sell their abundant raw materials internationally (1) increases export revenue / improves current account balance / creates employment / encourages firms to expand / increases GDP (1). Encourages foreign investment (1) may lower costs of production / increases total demand / improves current account balance / creates employment / increase tax revenue (1).	4	One mark each for each of two benefits identified and one mark each for each of two explanations. Accept improved infrastructure.

Question	Answer	Marks	Guidance
1(e)	Analyse the impact of improved education on the economy of Laos. Increased adult literacy rate (1) better skills/qualifications (1) increase productivity (1) / increase productive capacity / total supply (1) increase demand for labour (1) reduce unemployment / raise employment (1) raise wages (1) reduce poverty (1). More attractive for entrepreneurs / new businesses / investment (1) increase output / GDP (1) leading to higher living standards (1). Improvements in technology (1) due to workers having higher IT skills (1) Increase the consumption of merit goods / decrease the consumption of demerit goods (1)	4	
1(f)	Analyse the relationship between a country's Ease of Doing Business ranking and its GDP per head. Expected relationship: Positive / direct (1) if ease of doing business (EDB) rank is high, GDP per capita is high (1). Supporting evidence: Singapore has the highest EDB rank and GDP per capita is highest (1) Timor-Leste has the lowest EDB rank and GDP per capita is the lowest (1). Exception: Brunei / Malaysia (1) has lower EDB rank than Malaysia but higher GDP per head (1). Alternatively South Korea / Brunei (1) Brunei has lower EDB rank but higher GDP per head (1). Analysis: The greater the ease of doing business, the more investment there is likely to be (1) higher investment is likely to increase GDP (1).	5	

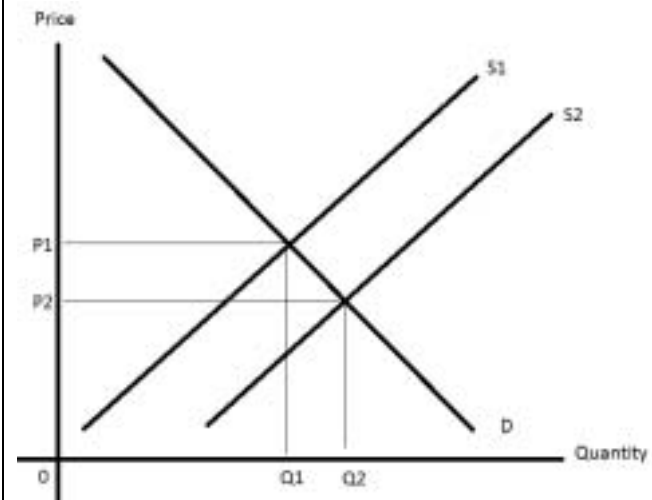
Question	Answer	Marks	Guidance										
1(g)	Discuss whether or not strict rules and regulations benefit an economy. Award up to 4 marks for logical reasons why they might, which could include: - Environmental rules (1) e.g. cap on carbon emission, tax on polluting industries (1) reduce market failure (1) reduce external costs (1) e.g. could decrease pollution / protect natural resources (1) less health problems for the society (1) better standards of living (1). - Anti-competition rules (1) e.g. restrictions on monopoly power (1) improved consumer choice / lower prices / better quality (1) foreign companies will not dominate the market (1) opportunities for domestic firms to develop (1) increased future economic growth (1). - Restrictions on imports (1) may protect domestic industries / allow growth of domestic industries (1). - Bans e.g. prohibiting smoking in public places (1) may reduce market failure / reduce external costs (1). - Labour market legislation (1) protecting workers' rights (1). Award up to 4 marks for logical reasons why they might not, which could include: - Strict regulation discourages business (1) Laos ranks one of the lowest in the World Bank's Ease of Doing Business index (1) lack of investment / MNCs discouraged (1) lower productivity (1) lack of competition (1) lack of employment opportunities (1) decreased total demand (1) decreased economic growth / lower GDP (1) lower standards of living (1).	6	Apply this example to all questions with the command word Discuss (1(g), 1(h), 2(d), 3(d), 4(d) and 5(d)) Each point may be credited only once, on either side of an argument, but separate development as to how/why the outcome may differ is rewarded. <table><tr><th>Generic example</th><th>mark</th></tr><tr><td>Tax revenue may decrease...</td><td>1</td></tr><tr><td>...because of reason e.g. incomes may be lower.</td><td>1</td></tr><tr><td>Tax revenue may increase because incomes may be higher i.e. reverse of a previous argument.</td><td>0</td></tr><tr><td>Tax revenue may increase because of a different reason i.e. <u>not</u> the reverse of a previous argument e.g. government spending on subsidies may stimulate the economy more than spending on education.</td><td>1</td></tr></table>	Generic example	mark	Tax revenue may decrease...	1	...because of reason e.g. incomes may be lower.	1	Tax revenue may increase because incomes may be higher i.e. reverse of a previous argument.	0	Tax revenue may increase because of a different reason i.e. <u>not</u> the reverse of a previous argument e.g. government spending on subsidies may stimulate the economy more than spending on education.	1
Generic example	mark												
Tax revenue may decrease...	1												
...because of reason e.g. incomes may be lower.	1												
Tax revenue may increase because incomes may be higher i.e. reverse of a previous argument.	0												
Tax revenue may increase because of a different reason i.e. <u>not</u> the reverse of a previous argument e.g. government spending on subsidies may stimulate the economy more than spending on education.	1												

Question	Answer	Marks	Guidance
1(g)	- Bureaucracy / red tape increases the time and effort of doing business (1) increases cost of production (1) lowers profit (1). - Rules and regulations may lack clarity (1) causing them to be implemented incorrectly (1) - Takes time for the government to administer rules and regulations (1) opportunity cost of government spending (1). - Import restrictions reduce competition (1) may result in higher prices (1) lower quality (1)		
1(h)	Discuss whether or not a slowdown of China's economy will be harmful to the economy of Laos. Award up to 4 marks for logical reasons why it might, which might include: - China is Laos's largest trading partner / 58% of Laos's exports are sold to China (1) China slowing down will lead to less demand for Laos's exports (1) less export revenue / worsen current account (1) less total demand (1) less economic growth (1) may not be able to buy more, irreplaceable imports (1). - China is the largest source of foreign investment into Laos (1) less foreign investments will lead to less job creation (1) less employment / higher unemployment (1) lower standards of living (1). Award up to 4 marks for logical reasons why it might not, which might include: - Reduce dependence on China (1) find new markets and investors (1) other countries' economies could be expanding (1) which could generate more exports (1) and jobs (1). - May lead to fewer environmental problems (1) less pollution (1) higher standard of living (1). - Domestic investors and firms could fill the gap (1) more employment (1) higher GDP (1).	6	

Question	Answer	Marks	Guidance
2(a)	Define <i>redistribution of income</i>. Transfer of income from some individuals (1) to others (1). Tax taken from the rich (1) is spent on the poor (1). Progressive / regressive taxation (1)	2	
2(b)	Explain <u>two</u> reasons why governments redistribute income. Logical explanation which might include: • Reduce poverty (1) higher purchasing power (1) afford basic necessities (1) e.g. healthcare / education / proper housing (1). • Reduction in poverty reduces social problems / waste of resources (1) as poverty may create e.g. poor health / reduce productivity (1). • To promote equity / greater equality of income (1) reducing the gap between rich and poor (1) • To increase incentives if redistribute from poor to rich (1) may increase effort / enterprise (1)	4	One mark each for each of two reasons identified and one mark each for each of two explanations.
2(c)	Analyse the economic effects of a reduction in a country's export of services. Coherent analysis which might include: As export of services decreases, total exports will decrease (1) total demand decreases (1) less inflation (1) lower economic growth / lower GDP (1). Less export of services, less demand for service workers (1) less job opportunities / higher unemployment (1). Higher current account deficit / less current account surplus (1) reduces ability to buy imports (1) lower standards of living (1).	6	

Question	Answer	Marks	Guidance		
2(d)	Discuss whether or not supply-side policy measures encourage firms to operate in an economy. In assessing each answer, use the table opposite. Why they might encourage firms: • Makes it easier to hire and fire workers might lower costs of employing workers to firms. • Better skills could increase productivity. • Encouraging more workers into the labour market could increase the supply of workers. • Reduction in trade union power can reduce cost / make it easier to start a business. • Lower direct taxes will encourage more firms to start up. • Deregulation will reduce barriers to operate in an economy. • Privatisation will allow private firms to invest in the economy. • Subsidies will give firms an incentive to stay in the country. Why they might not encourage firms: • Less job security could decrease productivity, increasing cost of production for firms. • Costs of hiring workers might still be lower elsewhere. • Supply side measures (e.g. labour market reforms) may take a long time before the effects on the economy are apparent • Lower direct taxes may reduce the government's ability to spend on education / training which will increase firms' cost of production • Deregulation may enable other firms to engage in unfair practices • There may be a fear that subsidies might be withdrawn and if there is a fall in demand MNCs will not want to stay in the country anyway • Other governments may be giving larger subsidies	8	Level	Description	Marks
			3	A reasoned discussion which accurately examines both sides of the economic argument, making use of economic information and clear and logical analysis to evaluate economic issues and situations. One side of the argument may have more depth than the other, but overall both sides of the argument are considered and developed. There is thoughtful evaluation of economic concepts, terminology, information and/or data appropriate to the question. The discussion may also point out the possible uncertainties of alternative decisions and outcomes.	6–8

Question	Answer	Marks	Guidance		
2(d)			Level	Description	Marks
			2	A reasoned discussion which makes use of economic information and clear analysis to evaluate economic issues and situations. The answer may lack some depth and development may be one-sided. There is relevant use of economic concepts, terminology, information and data appropriate to the question.	3–5
			1	There is a simple attempt at using economic definitions and terminology. Some reference may be made to economic theory, with occasional understanding.	1–2
			0	A mark of zero should be awarded for no creditable content.	0

Question	Answer	Marks	Guidance
3(a)	Define <i>finite resource</i>. A resource is an aid to production (1) which is limited in supply (1) it cannot be replaced over time / fast enough / will run out (1) to keep pace with consumption (1).	2	No mark for an example
3(b)	Explain the difference between private and external benefits. Logical explanation which might include: Private benefits are enjoyed by the producer (1) and consumer (1) first and second parties (1) of a product, example e.g. revenue for the producer / satisfaction for the consumer (1). External benefits are enjoyed by a third party (1) not directly involved in the production (1) or consumption process (1) example (1)	4	Maximum 3 marks for only explaining 1 type of benefit.
3(c)	Analyse, using a demand and supply diagram, the effects on the world price of oil of the discovery of new reserves of oil. (6) Up to 4 marks for the diagram: Axes correctly labelled – price and quantity or P and Q (1). Original demand and supply curves correctly labelled (1). New supply curve shifted to the right (1). Equilibriums – shown by lines P1, P2 / Q1, Q2: or marking the equilibrium points E1 and E2 (1). Up to 2 marks for written comments: Discovery of new oil will enable an increase in supply (1) price will be lower (1).	6	

Question	Answer	Marks	Guidance		
3(d)	Discuss whether or not the fall in the price of a product is a disadvantage to an economy. In assessing each answer, use the table opposite. Why it might be a disadvantage: • It depends on size of fall in price and elasticity of demand for the product • It depends upon the importance of the product to the economy / how dependent on it • If demand is price inelastic, decrease in total revenue e.g. basic items / necessity, cannot cover the costs, firms may go out of business, less employment opportunities • Less profits, discourages investment, reduces economic growth • Less export revenue, may increase current account deficit • Fall in price may be due to cheaper imports, domestic firms lose out. • The product may be a demerit good which previously was overconsumed. • If the product is part of a deflationary situation, there could be recession / unemployment	8	Level	Description	Marks
			3	A reasoned discussion which accurately examines both sides of the economic argument, making use of economic information and clear and logical analysis to evaluate economic issues and situations. One side of the argument may have more depth than the other, but overall both sides of the argument are considered and developed. There is thoughtful evaluation of economic concepts, terminology, information and/or data appropriate to the question. The discussion may also point out the possible uncertainties of alternative decisions and outcomes.	6–8

Question	Answer	Marks	Guidance		
3(d)	Why it might not be a disadvantage: • Depends on size of fall and whether it is short or long term • If demand is elastic, increase in total revenue e.g. luxury goods / many substitutes • Increase choices and affordability of product – better living standards • Fall in the price of a raw material may lower cost of production, reducing inflation and increasing economic growth • The product may be a merit good which previously was under-consumed • It may make a basic necessity more affordable – low income groups may be better off • It may be the result of an increase in productivity / a government subsidy • It may make the product more internationally competitive, improving the current account position.		Level	Description	Marks
			2	A reasoned discussion which makes use of economic information and clear analysis to evaluate economic issues and situations. The answer may lack some depth and development may be one-sided. There is relevant use of economic concepts, terminology, information and data appropriate to the question.	3–5
			1	There is a simple attempt at using economic definitions and terminology. Some reference may be made to economic theory, with occasional understanding.	1–2
			0	A mark of zero should be awarded for no creditable content.	0

Question	Answer	Marks	Guidance
4(a)	Define <i>total revenue</i>. Total amount of money earned by firms (1) for selling their products (1). Price times quantity (2), $P \times Q$ (2) Total costs plus profit (2).	2	No mark for producing their products
4(b)	Explain <u>two</u> causes of inflation. Logical explanation which might include: Demand-pull inflation (1) increase in total demand (1) e.g. increase in consumption / increase in investment / government spending / net exports (1) e.g. cut in income tax / decrease interest rate / increase employment / increase in the money supply (1). Cost-push inflation (1) increase in costs of production (1) e.g. increase in wages / raw material cost / profit margin / tariffs (1) e.g. wages may rise more than productivity / fall in exchange rate would increase raw material costs (1).	4	One mark each for each of two causes identified and one mark each for each of two explanations. Full marks may be awarded for a detailed explanation of two causes of one type of inflation.
4(c)	Analyse how an increase in interest rate could reduce total demand in an economy. Coherent analysis which might include: Increase in interest rate will lead to an increase in the cost of borrowing (1) there will be less borrowing (1) less consumption / spending (1) less investments (1) An increase in interest rate will lead to an increase in the returns from savings (1) there will be more savings (1) less consumption / less spending (1) An increase in interest rate may attract an inflow of money from other countries into the country's banks (1) leading to an appreciation of the currency (1) leading to increase in price of exports / decrease in price of imports (1) increase exports / decrease imports (1) decrease net exports (1)	6	

Question	Answer	Marks	Guidance		
4(d)	Discuss whether or not an appreciation of a country's domestic currency will have negative effects on its economy. In assessing each answer, use the table opposite. Why appreciation will have a negative impact: • Price of exports will be higher – decrease export revenue. • Price of imports will be lower – increase import spending. • Decrease demand for domestic products – decrease demand for labour. • Decrease current account surplus / increase current account deficit. • Lower economic growth. Why appreciation will not have a negative impact: • Price of imports cheaper – increase affordability of imports – increase standards of living. • Price of imported raw materials / machinery lower – lower cost of production – lower final price. • PED for exports and imports might be inelastic. • May encourage foreign investment as there may be increased confidence in the country's future economic prospects	8	Level	Description	Marks
			3	A reasoned discussion which accurately examines both sides of the economic argument, making use of economic information and clear and logical analysis to evaluate economic issues and situations. One side of the argument may have more depth than the other, but overall both sides of the argument are considered and developed. There is thoughtful evaluation of economic concepts, terminology, information and/or data appropriate to the question. The discussion may also point out the possible uncertainties of alternative decisions and outcomes.	6–8

Question	Answer	Marks	Guidance		
4(d)			Level	Description	Marks
			2	A reasoned discussion which makes use of economic information and clear analysis to evaluate economic issues and situations. The answer may lack some depth and development may be one-sided. There is relevant use of economic concepts, terminology, information and data appropriate to the question.	3–5
			1	There is a simple attempt at using economic definitions and terminology. Some reference may be made to economic theory, with occasional understanding.	1–2
			0	A mark of zero should be awarded for no creditable content.	0

Question	Answer	Marks	Guidance
5(a)	Define market disequilibrium. When quantity demanded does not equal quantity supplied (2). When there are shortages (1) or surpluses (1) of a product.	2	
5(b)	Explain the difference between labour-intensive and capital-intensive industries Logical explanation which might include: Labour-intensive industries rely more on human labour (1) i.e. workers (1) low-cost labour may be available (1) example of industry (1) Capital-intensive industries rely more on capital (1) i.e. machines (1) capital more efficient / cheaper than labour (1) example of industry	4	
5(c)	Analyse how trade unions could increase economic development. Coherent analysis which might include: Trade unions could help engage in collective bargaining on wages (1) higher wages (1) leads to higher purchasing power of workers (1). May increase motivation of workers (1) increase output (1). Better working hours (1) improved working conditions (1) protect workers' rights (1) better health and safety (1) more job security (1) leads to higher standards of living (1) higher life expectancy (1). Increased productivity / efficiency of workers (1) decreases cost of production (1) decrease final price of goods and services produced in the country (1) increase competitiveness (1) higher output / economic growth (1). May help with training (1) raise quality of output (1).	6	

Question	Answer	Marks	Guidance		
5(d)	Discuss whether or not high government spending can help a government achieve its macroeconomic aims. In assessing each answer, use the table opposite. Why high government spending can help a government achieve its macroeconomic aims: • economic growth – increase total demand • full employment/low unemployment – increase demand for workers through more government infrastructure projects • government spending on education may raise workers' skills and so lower unemployment • balance of payments stability – through subsidies for producers • redistribution of income – through spending on social welfare. Why high government spending cannot help a government achieve its macroeconomic aims: • increased total demand could lead to increase demand-pull inflation • too much government spending could lead to less private investments • overreliance of government subsidies could lead to complacency • high spending on social welfare could discourage the unemployed from trying to find jobs • may be accompanied by higher taxes which could be a disincentive to effort and enterprise • may increase budget deficit which could reduce confidence in the economy.	8	Level	Description	Marks
			3	A reasoned discussion which accurately examines both sides of the economic argument, making use of economic information and clear and logical analysis to evaluate economic issues and situations. One side of the argument may have more depth than the other, but overall both sides of the argument are considered and developed. There is thoughtful evaluation of economic concepts, terminology, information and/or data appropriate to the question. The discussion may also point out the possible uncertainties of alternative decisions and outcomes.	6–8

Question	Answer	Marks	Guidance		
5(d)			Level	Description	Marks
			2	A reasoned discussion which makes use of economic information and clear analysis to evaluate economic issues and situations. The answer may lack some depth and development may be one-sided. There is relevant use of economic concepts, terminology, information and data appropriate to the question.	3–5
			1	There is a simple attempt at using economic definitions and terminology. Some reference may be made to economic theory, with occasional understanding.	1–2
			0	A mark of zero should be awarded for no creditable content.	0