

### **Topic Tests**for AS / A Level Year 1 Edexcel A

Theme 1: Introduction to Markets and Market Failure

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### **Teacher's Introduction**

This resource consists of a set of Topic Tests that have been written to support the teaching of A Level Edexcel Economics A Theme 1. It allows teachers and students to check their understanding and consolidate knowledge of each part of the Edexcel specification. In each Topic Test there is a mixture of numerical, multiple-choice, short-answer and essay-style questions of a variety of different difficulties. There are 10 Topic Tests in this resource, following the topics of the A Level and AS specifications.

Importantly, each Topic Test is accompanied by a set of detailed answers that could be handed out to students as a basis for 'model' answers in the examination. Note that although the Topic Test questions aren't always in exam format, the questions within have been written carefully with the intention of testing the range of Assessment Objectives and often borrow aspects that are similar to those in the exam.

Most of the case studies in the Topic Tests include up-to-date economic data and scenarios that should place economic theory in recent history, enrich students' general knowledge of the subject, and prepare students for the Data Response aspects of the examination. Moreover, the resource also includes plenty of opportunities for students to practise the Quantitative Skills outlined in the Appendix of the Edexcel specification.

Most Topic Tests contain 30–40 marks worth of questions, although some tests are shorter to cover each specification topic appropriately according to its scope. It is intended that the longer Topic Tests will take about one hour to complete and should be presented to students *after* teaching the parts of the specification that are to be tested. However, the Topic Tests could also be given to students as homework in order to consolidate their knowledge outside of the classroom, or certain aspects could be used as a supplement to in-class learning.

It is important to note that this resource should be used as a complement to other resources such as textbooks and practice exam papers, and not in isolation. These Topic Tests include plenty of explanation of the theory in the mark scheme, but students should be encouraged to access information as widely as possible.

It is hoped that this resource, as well as offering support for teaching the essential elements of the Edexcel microeconomics specification, will help students fully prepare for their AS and A Level examinations. The economic environment is constantly in flux, and full of fascinating current issues. This resource attempts to share some of these current issues as a basis for teaching in the most interesting way possible, meanwhile encouraging further study from the next generation of Economists!

Happy teaching!

October 2019

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### Mark Scheme: Levels of Response Tables for Long-answer Que

### 10 marks

		Knowledge (2), application (2) and analysis (2)	
	0	No relevant answer given.	
Level 1	1–2	A few concepts may be identified correctly but inconsistently, and thought behind the causes and effect	
Level 2	3–4	Some knowledge of economic nopuls shown, partially linked to reasoning skills. here is a too much on one side of an argumen	
Level 3	5–6	Knowle he conomic concepts is very accurate. Links to the Analysis is well reasoned and logical, and appropriate for	
	719 709 orion	Evaluation (4)	
	Educor	No evaluation.	
Level 1	1–2	Limited attempt at evaluation – may be only loosely related to the sufficient reasoning.	
Level 2	3–4	Accurate, balanced evaluative comments are made, supporting a rodirectly to the question.	

### 12 marks

		Knowledge (2), application (2) and analysis (4)	
	0	No relevant answer given.	
Level 1	1–2	A few concepts and examples may be identified correctly, but may Absence of thought behind the causes and effects.	
Level 2	3–5	Some knowledge of economic concepts is shown, partially linked to reasoning skills, but may focus too my be side of an argument	
Level 3	6–8	Knowledge of the economic on end accurate. Links to the quest examples. Analysic (e) a oned, logical and appropriate for the	
Evaluation (4)			
	719	\ Cation.	
Level 1	Zog Education	Limited attempt at evaluation – may be only loosely related to the reasoning and evidence.	
Level 2	3–4	Accurate, balanced evaluative comments are made, supporting a rodirectly to the question.	

### 15 marks

		Knowledge (3), application (3) and analysis (3)	
	0	No relevant answer given.	
Level 1	1–3	A few concepts may be identified correctly, but inconsistently, and thought behind the causes and effects.	
Level 2	4–6	Some knowledge of economic concepts is shown, partially linked to reasoning skills, but may focus too much on the side of an argumen	
Level 3	7–9	Knowledge of the economic conclusion of the examples. Analysis is well so and logical, and appropriate for	
	Evaluation (6)		
	0	No Lat. di	
Level 1	Zig Zog Education	is lited attempt at evaluation – may be only loosely related to the sufficient reasoning.	
Level 2	3–4	Clear evidence of evaluative comments, though they may be unfair argument. Reasoning / supporting evidence is provided but may be	
Level 3	5–6	Accurate, balanced evaluative comments are made, supporting a rodirectly to the question.	

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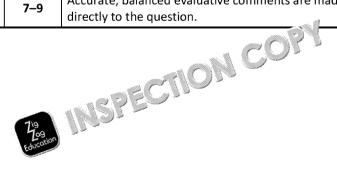


### 20 marks

		Knowledge (4), application (4) and analysis (6)	
	0	No relevant answer given.	
Level 1	1–3	A few concepts may be identified correctly, but inconsistently, and thought behind the causes and effects.	
Level 2	4–6	Some knowledge of economic concepts is vn, partially linked to incomplete or basic reasoning skills	
Level 3	7–10	Good knowledge of the nt nomic concepts is displayed, linevidence to sum arguments. Analysis is well developed side of the new and arguments.	
Level 4	719 7209 cotion	ge of the economic concepts is very accurate. Links to the examples. Analysis is well reasoned and logical, and appropriate for	
	Eggg	Evaluation (6)	
	0	No evaluation.	
Level 1	1–2	Limited attempt at evaluation – may be only loosely related to the creasoning.	
Level 2	3–4	Clear evidence of evaluative comments, though they may be unfairly argument. Reasoning / supporting evidence is provided but may be	
Level 3	5–6	Accurate, balanced evaluative comments are made, supporting a rodirectly to the question.	

### 25 marks

		Knowledge (4), application (4) and analysis (8)	
	0	No relevant answer given.	
Level 1	1–4	A few concepts may be identified as each but inconsistently, and thought behind the causes and a few so.	
Level 2	5–8	Some knowled to raic concepts is shown, partially linked to incomplete creasoning skills.	
Level 3	Zig Zog Education	wledge of the relevant economic concepts is displayed, linewidence to support the main arguments. Analysis is well developed side of an argument.	
Level 4	13–16	Knowledge of the economic concepts is very accurate. Links to the examples. Analysis is well reasoned and logical, and appropriate for	
		Evaluation (6)	
	0	No evaluation.	
Level 1	1–3	Limited attempt at evaluation – may be only loosely related to the reasoning.	
Level 2	4–6	Clear evidence of evaluative comments, though they may be unfair argument. Reasoning / supporting evidence is provided but may be	
Level 3	7–9	Accurate, balanced evaluative comments are made, supporting a redirectly to the question.	



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### **Mark Breakdown Test-by-test**

Topic Test	T
1.1a	
1.1b	
1.2a	
1.2b	
1.2c	
1.0	
7.3 1.2e	
1.3a	
1.3b	
1.4	





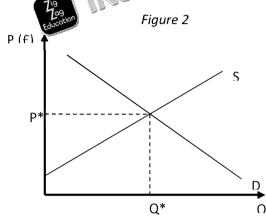
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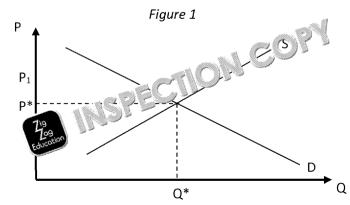
### Topic Test 1.2d How Markets Work: The Interaction of Supply and Demand (1.2.6–1.2.8)

- 1. (a) What is a market?
  - (b) What is meant by market equilibrium?
  - (c) Using a 'Demand and Supply' diagram, identify the bint at which a mar be in equilibrium.
- 2. What causes disequilibrium ir

Questions 2 an ( Sea on the following diagram (Figure 2).



- 3. If demand decreased, which of the following would be true?
  - A The market equilibrium quantity would be higher in before and supply
  - B The market equilibrium price would be high in before and supply w
  - C The market equilibrium price would be used than before and supply will
  - D The market equilibrium and supply
- 4. If supply in real way hor the following would be true?
  - A Ti ve an increase in producer surplus.
  - B The Education uld be a decrease in producer surplus.
  - C There would be an increase in producer surplus and a decrease in consul
  - **D** There would be a decrease in producer surplus and an increase in consu
- 5. Explain the role of the price mechanism in a market-based economy.
- 6. Explain **one** advantage and **one** disadvantage of the price mechanism.
- 7. What is meant by producer surplus?
- 8. Imagine that the market for Frisbees looks as follows:

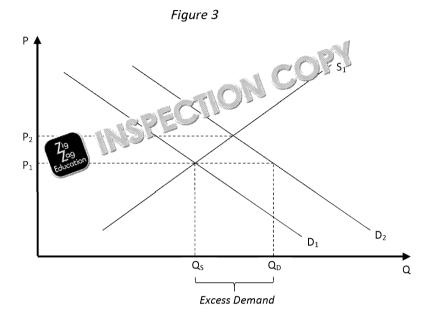


Price is currently  $P_1$  which is above the market equilibrium price  $P^*$ . What wo bringing the market back into equilibrium?

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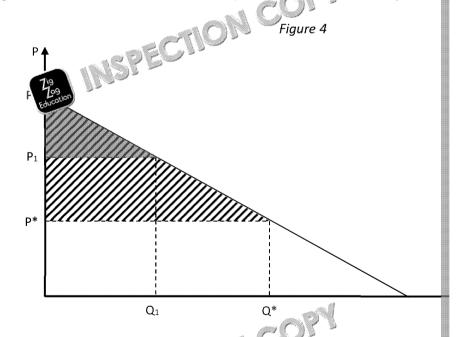


Suppose that the Vietnamese monsoon season were wetter than anticipated, ca waterproof cagoules from D<sub>1</sub> to D<sub>2</sub>. Initially the microeconomic equilibrium is at a market clearing price of P<sub>1</sub>. However, there is disequilibrium in the market at pr



Explain the process through which market forces bring about microeconomic

- 10. Explain, using one or more diagrams, the difference between producer surply
- 11. Figure 4 shows the demand curve for bicycles and the summer surplus at two



What do you notice about the chan en anner surplus? INSPEC

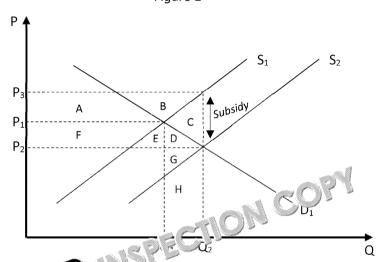




### **Topic Test 1.2e How Markets Work: Markets Misbehavil**

- 1. Imagine that the UK government is trying to reduce cigarette consumption be to protect its citizens from ill health. The UK's indoor smoking ban has been consumption so the government has imposed a 40% *ad valorem* tax on a pac
  - (a) Assess the effect of the government's tax or as the ket for cigarettes.
  - (b) Assess the effect of this tax on the mark the e-cigarettes.
- 2. Explain, using one or many security, how the elasticity of demand for cigare of the government of the power many paid by consumers and producers.
- 3. Suppose the UK government wished to increase the uptake of health and cigarettes, such as nicotine patches. It decides to offer a subsidy to producers

Figure 1



Which Tollowing areas would represent the UK's total government spe

- B C + D + G + H
- $\mathbf{C}$  A+B+C+D+E+F
- **D** A+B+C+D+E+F+G+H
- 4. 'Bounded rationality' is a theory that decision-making is 'bounded' or limited cognitive ability and the time constraints imposed on the decision-making pro

Explain how limits on rationality may affect the traditional view of economic

- 5. Explain, using appropriate examples, two sources of bias in economic decision
- 6. Explain how altruism can affect an individual's decision to donate to charity



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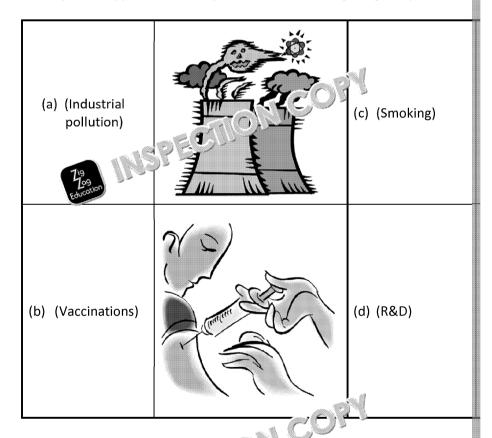


### Topic Test 1.3a Market Failure and Externalities (1.3.1-2

- What is meant by market failure?
- 2. If market failure occurs, will production be efficient or inefficient? Why?
- 3. Market failure results in:
  - A The over-production of certain products
  - B The under-production of control in coucts.
  - C The over-consumption of oth
  - D All of the all of

Tourists to K's national parks tend to leave more than just their footprints in intentionally or accidentally, leave behind all sorts of waste – from plastic food soiled nappies. Litter is unsightly, and it ruins other people's enjoyment of the be UK has to offer. It's easy to think that a single piece of litter is not a significant p would quickly turn our national parks into large-scale rubbish dumps.

- 4. Illustrate, and explain, how leaving litter behind can cause a market failure.
- 5. Identify which type of externality each of the following images represents.



6. Using information from the extraction and a diagram, explain the external

Imagine that Sams:

I e rean electronics manufacturer — enters a region in tech properties of policy in training the local workforce in modern provides and voluntary training for those that wish to specialise in highly samsung investment in education and training has advantages for other manufacturer able to employ pre-trained workers from Samsung. Moreover, Samsung training has far-reaching benefits for society as a whole because a more production of the provided in the pr

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### 7. 'Marginal private cost' (MPC) refers to which of the following?

- A Incremental change in an individual's total cost arising from their product an additional unit of something.
- B Incremental change in a group of individuals' total cost arising from their consumption of an additional unit of something.
- C Incremental change in the total cost to society arising from the production additional unit of something.
- D Incremental change in an individual's to and an interest arising from their proof something.
- 8. If an individual really a system suming stone-baked pizzas, what would be the private of the system.
- 9. What is meant by 'marginal social cost' (MSC)?
- 10. What is meant by 'marginal social benefit' (MSB)?
- 11. 'Externalities' refers to which of the following?
  - A The costs and benefits that directly affect those involved in an economic
  - **B** Only the benefits that affect a third party as the result of an economic tr
  - C Only the costs that affect a third party as the result of an economic trans
  - **D** The costs or benefits that affect an unrelated third party as the result of transaction.
- 12. Table 1 shows information on the market for alcoholic drinks e.g. bottles of

	T	
Quantity consumed (daily)	STON CO.	МРВ
100,000	48	92
79 70 1	44	88
Education, 000	40	84
400,000	36	80
500,000	32	76
600,000	28	72
700,000	24	68
800,000	20	64

- (a) What would be the competitive free-market equilibrium level of output
- (b) What would be the level of output at which there would be no market
- (c) What is the difference between the free-market equilibrium and the opt level of output?
- (d) By how much does marginal private benefit ex and marginal social benefit experiences and market equilibrium?
- (e) Explain why the marginal of alcohol consumption exceed social benefit.
- (f) Drawa a land of the diagram for this type of externality.
- (g) St pointerhod that the government could use to correct this market

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### Topic Test 1.3b Public Goods and Information Gaps (1.3)

- Asymmetric information refers to which of the following?
  - A A situation in which market participants have access to exactly the same
  - **B** A situation in which a market participant has access to information about but not the future
  - C A situation that arises whenever there is an inches of information be economic transaction that is, once, at ir all has more, or better, information be economic transaction that is, once, at ir all has more, or better, information be economic transaction.
  - D A situation in which access it for a dion varies according to one's geographic
- 2. What is ment in the hazard's
- 3. 'Excludated refers to which of the following concepts?
  - A It is possible to prevent people that haven't paid for the good from consto it.
  - **B** It is impossible for two individuals to consume the good simultaneously.
  - C It is possible to reject the consumption of the good when it is provided
  - **D** It is possible for two individuals to consume the good simultaneously.
- 4. What is meant by the non-rivalry of a public good?
- 5. (a) If something is non-rejectable, what is true of this type of good?
  - (b) State **two** examples of a good that is non-rejectable.
- 6. Identify which of the following are public goods.

(a)	Cinemas
(b)	Healthcare
(c)	AII
(d)	Lananas
7.9	Lighthouses
Education	Timber
(g)	Fireworks
(h)	Electricity

- 7. Explain the reason that a public good exhibits zero marginal cost once provid
- 8. Assess how the existence of a public good creates a market failure.

It should be of no surprise that national defence is an important talking point in thear of measures that are being undertaken by governments to improve the sea intelligence organisation the NSA, for instance, is a control sial agency that mo information on the communication of American civility is order to protect against security. Trident, in the UK, is a nuclear substitution of system that some peoprotecting the UK. However, system in local defence are public goods in the that access to defence by a livility adoesn't prevent another from being simulated to the course, people do to a defence in whether they're defended or not once course, people do to a government spending on national defence, but this same as a defence system prevents attacks on a national scale then people whether they've paid into the system or not. It would not be credible for a governdefending certain individuals in society.

9. Evaluate the case for government provision of a national defence system.

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### **Topic Test 1.4 Government Intervention**

- 1. What is the rationale for government intervention in markets?
- 2. Identify a potential government intervention method that could be effective following scenarios.

	Scenario
(a)	Fossil-fuel-powered which is were a necessity in past decades, that means wered vehicles are affordable and less environment for formal counterparts. However, less people are purchasing overnment had hoped.
(b)	infrastructure is essential to the functioning of any economy. Without transportation networks, we would only be able to purchase things the close to one's home. However, it is difficult for private firms to recove certain transportation networks because they often function similar to
(c)	Agricultural commodities tend to fluctuate in price according to the much of a crop is harvested, there will be an excess of supply and the would be less than expected, and vice versa. However, farmers' unc prices of their crops leads them to delay investments that could improve the could improve the could improve the could improve the could be a considered to the could be considered.
(d)	In the second half of the twentieth century, many Asian economies open international trade and have seen dramatic increases in their rates of the macroeconomy is generally performing well in these Asian countries paid nominal wages for their labour. In Bangladesh, for instance, garma about £25 per month, but their living costs term be about £45 per month.
(e)	Weapons are instruments of death. When I morally acceptable for access to weapons, weapons is a hands of the wrong people are a 1966, Charles White ian I moved to the top of the University of Texas innocent of siles students with a high-powered sniper rifle, killing to incident there have been numerous high-school and university of the country's homicide rate is the highest of any developed
(f)	Consumers, unaware of the serious health risks of consuming agricult treated with synthetic pesticides, have been over-consuming these carcinogens and cancer rates are increasing in the UK.

- 3. Explain how tradable pollution permits can overcome environmental market
- 4. Explain **one** advantage and **one** disadvantage of using tradable pollution perr market failure.

Pollution has reached a record high in the UK. The UK government feels that ther renewable energy sources. Households could benefit from installing solar panels could bring down the cost of their electricity bills in continually increasing tariffs. However, there are even benefits of households including reductions in pollution and subsidies for the small solar panels on the

- 5. (a) Illumer that is outlined in the extract.
  - (b) At the likely effect of the government's intervention on the market
  - (c) What the opportunity cost of the government's intervention?
  - (d) Identify an alternative way the government could intervene to increase energy sources.
- 6. What is meant by 'government failure'?

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- 7. Identify and explain **three** possible causes of government failure.
- 8. 'Alcoholism has negative effects on society. Therefore, the government shoul price per unit of alcohol.'

Evaluate the effectiveness of minimum unit prices as a method to counteract







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### **Answers**

### **Topic Test 1.1a: The Nature of Economics: The Basic Economics**

1. **B** – Economists make assumptions in order to simplify their models. It would be all the different factors that could affect an economic model and, even if they could constant change. Therefore, instead of taking into account that are *generally* true, and can build models of the county that are true on average of the county that are true on a very that are true on a very that the county that are true on a very that are true on a very that the county that are true on a very that the county that are true on a very that the county that the county that are true on a very that the county that the county

[1 mark for correct response]

2. 'Ceteris paritus' purase that translates as 'other things being equal' or consta to be almost impossible for economists to analyse a specific charmacroe convironment without having to consider that other factors could be almost impossible for economists to analyse a specific charmacroe convironment without having to consider that other factors could be almost increase, in order to isolate the effect of a single factor, economists tend to adopt e.g. if investment increases, aggregate demand will increase, ceteris paribus.

[2 marks for a clear explanation of the significance of the ceteris paribus assumption of the explanation that is less clear but which conveys the general meaning]

- A 'social' science is an academic discipline which focuses on the scientific study or relationships.
  - [2 marks for a clear explanation of what is meant by a 'social science'; 1 mark for a which conveys the general meaning]
- 4. A 'natural' scientist is able to conduct experiments in order to test their hypothes unable to conduct experiments. It would not be possible for an economist to char its effect on the economy. Instead, an economist creates a model and tests change

[2 marks for a clear explanation of the difference by very an economist and a natuexplanation that is less clear but which corvers be governal meaning]

- 5. The government's policy do not pursue an inflation rate of 2.0% is an examp statement and involved. At pursue judgement of what the UK's inflation rate
  - [2 man, 169] rear explanation of how the government's policy involves a value just explanate and is less clear but which conveys the general meaning]
- 6. **A** Only 'A' is an example of a positive statement because it is a testable statement involve some value judgements about how things ought to be and so are normatically an area of the statement because it is a testable statement involve some value judgements about how things ought to be and so are normatically an area of the statement because it is a testable statement because it is a testable

[1 mark for correct answer]

7. The 'economic problem' refers to the situation that arises in which an economy's therefore, insufficient in being able to satisfy the *infinite* number of wants of ecor referred to as the problem of 'scarcity'.

[2 marks for clear explanation of the BEP – answer should include the idea of unlinersources, whether referring explicitly or implicitly to scarcity]

8. **(A)** Food, **(D)** Shelter and **(F)** Clothing are considered 'wants' because they are it is at a time cessary for a comfortable things that one might desire.

[1 mark for each . •• 1. It, ed correctly up to a total of 3 marks]





9. Scarcity forces economic agents to make choices because the nature of having fin set of *wants* can be satisfied. Necessarily, using our resources for the consumption using those same resources on something else. Agents consider their limited resources of goods they would like to consume. Individuals, therefore, must prioritis important to them first – often their 'needs' – and then make choices about which scarcity did not exist then people would never be forced to make choices about performing the property of the people would never be forced to make choices about performing the property of the people would never be forced to make choices about performing the property of the people would never be forced to make choices about people wouldn't exist as a subject.

[2 marks for a clear explanation of how scarcity (151) fices to be made – i.e. in a limited set of resources]

10. An 'opportunity cost' is 'the plane next-best alternative forgone arising from course of action is a rare decide to pursue some action—e.g. studying Economic the beautiful parameters from all other possible decisions—e.g. studying Maths a rare risity, but also other options such as seeking employment instead a decision only the benefit that would have arisen from the 'next-best' option.

[2 marks for clear definition of an opportunity cost – the idea of a value placed on t central to the definition, and the idea that all decisions involve a trade-off but only to an opportunity cost]

- 11. 1. What should be produced?
  - 2. How should it be produced?
  - 3. For whom should it be produced?

[1 mark per correct response]

12. (a) The four factors of production are: land, labour, capital, and entrepreneurship

[1 mark for each correctly identified factor of productive]

(b) Land's reward is rent – the return for coverest, of land and natural resource the return on time invested in the profit – the return for risk.

for rectly identified reward to the factors of production]

13. 'Renewatesources are resources that are replaceable over time. In the context can include geothermal, solar, wind and tidal energy. Note that renewable resources some take some time to be replaced (e.g. timber), they do not need to be in infinite renewable' resources are those that cannot be replaced once consumed. Non-renewable are fossil fuels and nuclear energy.

[2 marks for a clear distinction between renewable and non-renewable resources; less clear but which conveys the general concept]

14. The production possibility curve (PPC), or frontier (PPF), is a graphical representation of goods and services (e.g. consumer and capital goods, apples and within a given time period by employing an economy's fixed factors of productions.

[2 marks for any appropriate definition of the PPF]

- 15. (a) Capital
  - (b) Consumption
  - (c) Capital

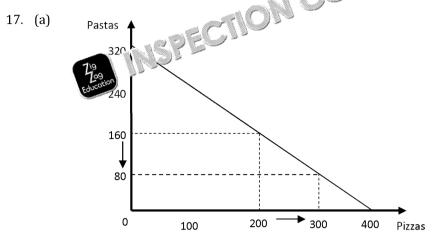
Note that capital graph of e goods that are used in the production process – usual catego (19 production), plant and equipment. Conversely, consumption goods are production.

[1 mark per correct response]

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[2 marks for a clear explanation of the difference betwee and allocative for an explanation that is less clear but which come states general meaning]



[1 mark for correctly labelled axes and values, 1 mark for linear PPF, and 2 mark for linear PPF, and

- (b) (i) Scarcity is represented via any point *outside* of the PPF for this economic represents the production combinations in the production, and so points outside of the production, and so points outside of the represent the unlimited given limited resources.
  - (ii) Productive in a represented via any point along the PPF this adable resources along this curve, it would not be possible universities that the shows the 'maximum combinations' of output.
  - (iii) Inefficiency is represented via any point *inside* the PPF this is because possible to produce more of one good without sacrificing any of the othersources are being inefficiently under-utilised.

[1 mark each for correctly identifying these concepts on the PPF]

(c) 80 pastas – rationale: If the fictional economy decided to produce 100 more movement along the PPF as the economy is now using more of its resources along the PPF involve a *trade-off* between the production of pastas and the produce 100 more pizzas, the benefit of producing 80 pastas must be forgor of producing an additional 100 pizzas is 80 pastas.

[1 mark for correct answer]

18. The PPF shifts whenever the productive point allowed accomony improves. If an could increase the amount of outro (V), a. economy's inputs, we would see the would hold for investment a simple capital goods. Likewise, the PPF could shift increase – e.g. if a lagrane was found. However, anything that damages the economy and is a constitution of the shift inward – e.g. a civil war, or natural disaster.

[1 mark december of an economy; 1 mark for identifying factors causing the PPF to shift inward – any potential of an economy]

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### **Topic Test 1.1b: Nature of Economics: Solving the Economics**

 Specialisation occurs when an individual, business, or nation state concentrates t production of a single, or limited number, of good(s).

[1 mark for correct answer]

2. From Table 1 it is immediately obvious that Admir in Letter at producing be fact, if Adam dedicated himself to producing value of equilibrium, dedicated his production to care the fact also produce 36 per annum, which maximum output.

It might like it is little reason for Adam to trade with Karl given that Adaptoduc poth vans and cars. However, this doesn't mean that there cannot be trade be the beautiful trade beautiful trade

It's important to note that Adam can only specialise in one *or* the other, and focus that Adam necessarily has to sacrifice some cars. It would be in everyone's best is specialise in the thing that they are better at.

If Adam wants to produce one more car, he must sacrifice one van, and *vice versa* more car he must sacrifice two vans, and to produce one more van he must sacrif opportunity cost (in terms of vans) of producing cars is lower than that of Karl's in car production. Karl should specialise in producing vans because his opportun

If Adam and Karl specialise and trade, they will both be better off – producing 36 situation without specialisation and trade because *more* of both goods can be pro [1 mark for identifying that both Adam and Karl will be better off with specialisation for explanation]

3. Primarily, in a barter economy trade *only* occurring to east a *double coincidence* of if each individual is offering the other in the unappose of the standardised medium of each in the serves as an intermediary for trade. Which further facility is a cause in a barter system it wouldn't be possible it for five the serves.

Note the responses that focus on the functions (and/or chacceptable. However, students must reflect on how these functions facilitate trad

[2 marks for a clear explanation of how money facilitates trade compared to a bart explanation that is less clear but which conveys the general meaning]

4. Adam Smith's observation was that through specialisation and *division of labour* if workers hadn't specialised.

Specialisation improves productivity because workers are able to practise and be of tasks rather than *all* tasks. Specialised workers might also develop specialised is also no time wasted moving between different parts of the production process division of labour can allow more to be produced given limited factor inputs had

It is clear, therefore, that specialisation can address as economic problem to satisfy a *greater* number of infinite wants – (g. s. anisation in a pin factory than 100 pins being made using the s. an. . or inputs.

However, specialisation could also exacerbate the basic economic problem if no

[Maximum 4 marks. 1 mark for identifying the argument that specialisation improva clear explanation including an argument against the first point]

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5. Market economies allocate resources via the price mechanism. Consumers signal to purchase (or not purchase) an item at the prevailing price. Producers receive this respond to these price signals by expanding or contracting output accordingly. Pro the factors of production and can pursue whichever productive activities they choosensumers and the chance of profitability. While the government has no influence provides a legal framework and institutions that ensure the smooth operation of maximise utility through consumption. Producers, therefore, are still subject to this legal maximise utility through consumption. Producers maximise the finite in the finite in allocation in a market economy model is a second of the finite in the fini

[1 mark for receasing sources are allocated through prices and/or the market explan [19] [the necessity]

6. Centrally planned economies are economic systems in which the state allocates r systems eschew the market mechanism (i.e. the interaction of consumers and progovernment makes economic decisions on a number of individual matters. In a government owns the factors of production and it controls the production and di state-owned enterprises. Normative decisions need to be made about how best to i.e. decisions must be made about *what*, *how* and *for whom* by the government is

[1 mark for recognising resources are allocated via the state, up to 3 marks for exp





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### **Market Economy** Centra Competition between businesses leads to cost-efficiency gains as firms have an incentive to cut costs and Equality is pr receive higher profit. It encourages the maximisation of economic controls prod agents' objectives. Government Innovation is encouraged to hain between the competitive - in comportant policy that br mach con his effects. Advantages Government 1 ) Someofice of consumer the economy oroducts available. It overcomes Individuals are free to pursue their private indiv own self-interest. process - e.g. Goods are produced according to natural resou consumer preference – this means that consumers should be more satisfied in a market economy. Logistically, c enormous pro predict chang whether item etc. Allocative achieved in si predictions a Market failure can occur if markets time - e.g. bei are left unfettered; this could include Corruption is inequality, uncompetitive markets, tends to corr environmental damage, etc. absolutely'. Exploitation of workers int It might also if businesses trut wak cose are allocated savings - 5 (v) providing Disadvantages normative ju add te working conditions. they are not len ers of society who are not It suppresses considered 'productive' (e.g. the firms have no elderly and the disabled) are not this is because useful to a market economy and transferred fr these people could find themselves state (i.e. ther in situations of poverty. Inefficient pr in a centrally It can create the governme grain needs to receive 100 to target will st

[Maximum 8 marks. Students should refer to these advantages and disadvantages i Korea – e.g. North Korea has a serious logistical issue allocating food resources (faretc.); investment is falling short of what is required for economic growth; lack of ae list is non-exhaustive and marks should be awarded on event responses.]



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### Topic Test 1.2a How Markets Work: Demand (1.2.1-1.2.

1. Maximisation refers to the process through which economic agents attempt to mother words, they attempt to get *as much* of their objective as possible. Consumer maximise their utility, or satisfaction. Businesses tend to be profit-maximisers. Geonomic objective is their primary focus – often this is economic growth, but it convironmental standards, or any other indicator of economic welfare, etc.

[1 mark for correct definition; 1 mark for (2) printe example. Note: example of traditional economic theory. It were in a printe, for instance, to suggest that sustomer satisfaction, etc. 1

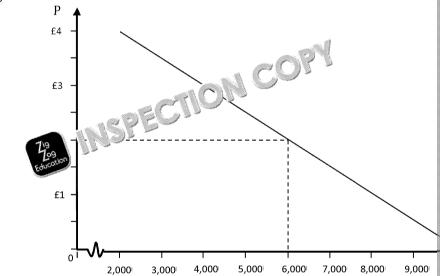
2. Demar 79 ec | plane concept that refers to the quantity of a specific item that purcha. To ange of prices during a specific time period.

[1 mark for an appropriate definition of demand. Note, responses must focus on corbetween price and quantity]

3. Individual demand is an individual consumer's willingness and ability to purchas any given price. Market demand, however, is the total quantity of a product that consumers within a market at any given price. The difference between individual market demand is comprised of all individual demand schedules.

[1 mark for outlining individual and market demand, 1 mark for highlighting the d

4. (a)



[1 mark for correctly labelled axes and demand curve; 1 mark for downward-slop passing through the coordinates in Table 1]

(b) % Change in 
$$Q_D = \frac{Original Q_D}{New Q_D} \times 100 = \frac{4,000}{8,000} \times 100 = 50\%$$

[1 mark for correct answer; 1 additional mark for value [1]

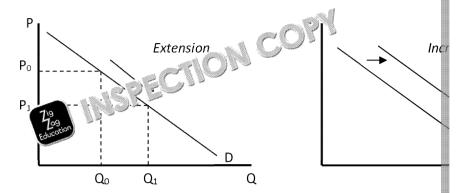
5. Intuitively, it seems obvious that dem would expect the quantity der han item to be low, and vice versa. Hen between price and are the less 'real' income a consumer would have after pureduce ab ncome. Therefore, we would expect demand to be less at high 'substit the less' income a certain good would encourage con products. Thus, demand for an item is lower the higher its price.

[1 mark for stating each effect that explains the inverse relationship between price substitution effect) and 1 mark for explanation of each]

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6. Extension of demand is a movement *along* the demand curve in the positive direction movement along the demand curve is observable as consumers respond positively demand refers to an entire *shift* in the demand curve in the positive direction – this factors other than the good's price (e.g. changes in preference, changes in the price changes in consumer income), leading to more being sold at the same price (other)



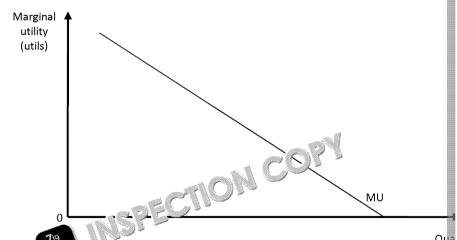
[1 mark for correctly matching extension to a movement along the curve, and 1 macurve; 1 additional mark for explanation of what this means for price and quantity cause a shift in either direction are appropriate, as well as a diagram.]

7. Possible factors shifting the demand curve for Kopi Luwak coffee could include a (it is likely to be a *normal* good), an increase in the price of a substitute good (e.g. the price of a complement good (e.g. milk), and a general shift in consumer preferences of advertising, due to a health trend, etc.).

[Maximum 3 marks. 1 mark for each suitable factor that could shift the demand curshift in either direction are appropriate. Do not award marks for changes in the pri

8. Marginal utility is defined as the additional utility and from consuming an extra of diminishing utility' states that expected. It seems intuitive that this is the case. If, purchases an automatic distribution of an additional unit is unlikely to increase an automatic ally, afar with a live of the individual has already reaped a lot of benefit from the first their collegion isn't all that useful. Importantly, after a certain number of cars the indecrease – e.g. because it begins to become problematic storing a large number of visiting and their collegions.

Graphically, this relationship can be represented as follows:



Margin theory can explain the downward-sloping nature of the demand individuals will be prepared to pay *less* for an additional unit of consumption if diminishing marginal utility.

[2 marks for a clear explanation of marginal utility (or 1 mark for an explanation t general concept); and up to 2 marks for a correct diagram]

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### **Topic Test 1.2b How Markets Work: Elasticities of Dema**

1. (a) Price elasticity of demand (PED) is the sensitivity, or responsiveness, of demonstrates are service's price level.

[2 marks for a clear explanation of PED; 1 mark for an explanation that is less meaning]

(b) 
$$PED = \frac{\% \text{ Change in the Quantity Demanded}}{\% \text{ Change in the Price}}$$

[2 marks for correction of the formula is defined personnels for correction of the formula is defined by the formula is de

2. (a) C-Education 
$$\frac{\% \text{ Change in the Quantity Demanded}}{\% \text{ Change in the Price}} = \frac{-10\%}{40\%} = -0.25$$

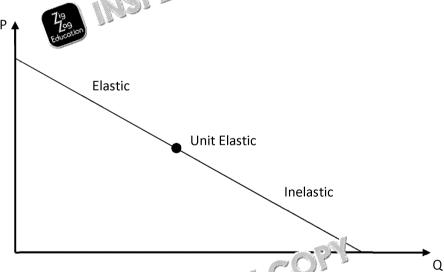
Therefore, the PED of petrol is inelastic. PED is *inelastic* if the calculated valuabsolute terms), it is perfectly inelastic if PED=0. Conversely, PED is elastic in PED=1.

[1 mark for correct response]

(b) A - Increase.

[1 mark for correct response]

3. PED varies along a straight line demand curve because its calculation involves per and quantity. Imagine that the nominal starting price of an item is high. If the privalue, the nominal change would constitute a small percent ge change relative to because the nominal quantity demanded is low at the carrier of the demand is low at the curve demand is said to is true for the bottom half of the demand in the relation intersects the y-axis, demand is perfectly inelastic.



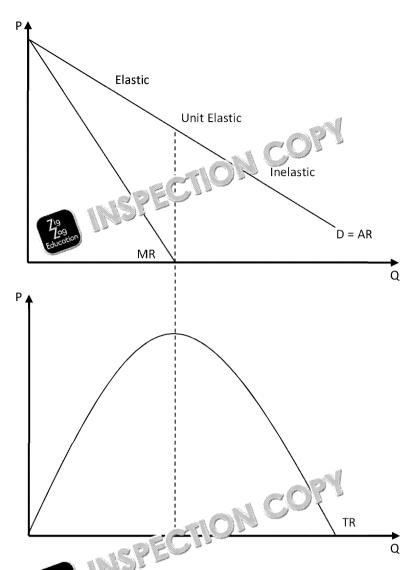
\*Note that this theory is importary in the relationship between PED a PED is elastic, firms can in set, exercise by reducing price and compensation increase in the quarter of product that is sold. When PED is unit elastic the fibecaus this point would reduce revenue – that is, raising the price dispropriate fall in the quantity demanded, and reducing the price will lead quantity demanded.

[2 marks for a clear explanation of why PED varies along a straight line demand culess clear but conveys the general concept (e.g. slightly incorrect terminology used) correctly drawn and labelled diagram]

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4.



Notice price elasticity of demand varies along a straight line demand cur half of the demand curve the price is *high*, while the quantity demanded *low*, so a percentage terms, but the associated change in quantity demanded would be larg upper half of the demand curve is elastic, and the bottom half inelastic. Note that curve the price elasticity of demand will be *unit-elastic*.

If demand is price elastic, the firm can reduce its price but enjoy a disproportional increase its revenue. If demand is price inelastic, the firm can increase its price an increase its revenue. However, once demand is unit elastic, an increase or decrease total revenue. Hence, total revenue is maximised when price and quantiunit elasticity. Notice that this is also the point at which marginal revenue is zero would lead to *negative* marginal revenue and so total revenue would decrease, at point would also reduce total revenue because the marginal revenue of increasing

[Maximum 4 marks. 2 marks for explaining the relationship between a firm's PED a relationship with a diagram.]

### 5. PED is influenced by...

- Availability of Substitutes are suitable substitutes available for a proto be more elatory auton of this relationship is that an increase in the companion of the companion away from it towards the relatively characteristics are light of a price increase. However, the magnitude of elasticity will suit the area.
- *Necessity:* If a product is a necessity then an increase in the price of the item the demand. Therefore, items that are not thought of as necessities (e.g. fore more sensitive to changes in price because there are alternatives available.

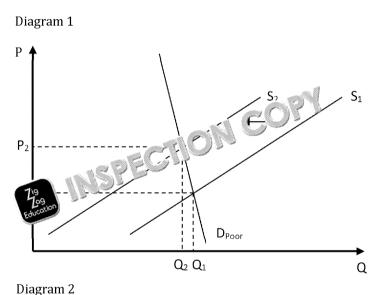
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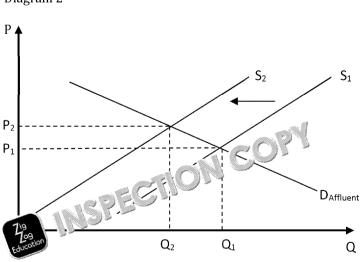


- Proportion of Income Devoted to the Good: If the cost of an item constitutes a hig
  overall expenditure, then a small increase in its price is likely to have a large effe
  income effect of consumption that is, items that take up a larger share of our
- Time Period: In the short-run, demand tends to be inelastic because people has
  commitments to consumption, and so changes in price don't tend to affect der
  people have time to change their patterns of consumption in response to price

[1 mark each for identify an appropriate factor; 1 mark 🎻 for suitable explanati

6. The UK government's sugar tax can be price a firm's costs are likely to have downward a leftward shift in the supprice a firm's costs are likely to have downward by the movement of S1 in the leftward direction that he ped of the ped of the





[Maximum 6 marks. 2 marks for at least one correctly labelled diagram; 4 marks for evaluative comments, supporting a rounded conclusion that pertains directly to the

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7. (a) Income elasticity of demand (YED) is the sensitivity, or responsiveness, of consumer income.

> I2 marks for a clear explanation of YED: 1 mark for an explanation that is less aeneral meaninal

(b) YED = 
$$\frac{\% \text{ Change in the Quantity Demanded}}{\% \text{ Change in Income}} = \frac{-60\%}{15\%} = -4.00 \text{ (i.e. Spam is an 'inferior)}$$

[1 mark for correct answer; 1 mark for the fire sking]

'Inferior' goods are those good whas and is negative - that is, when incomes rise 8. proportionately less ( ) ... inferior goods have YED < 0. Inferior goods, for in de 📝 Normal' goods are goods that show a positive relationship discour end to be described as normal goods. Normal goods are the opposite goods hard ED > 0. 'Superior' goods are goods for which YED is strongly positive positive and greater than one. Superior goods are a special type of normal good for

[Up to 2 marks for an accurate description of an inferior, normal, and superior go between these goods - e.g. by using values of YED, examples, etc.]

9. Public transport is an inferior good because its YED < 0 (-0.50) – this makes consumers might choose more luxurious modes of transport (e.g. cars).

[1 mark for correct response]

(b) Automobiles. YED = 2.98 which is greater than the other products' values.

[1 mark for correct response]

(c) Tobacco. YED is positive, therefore tobacco is a no. ). good.

[1 mark for correct response]

10. (a) Cross elasticity of control is the sensitivity, or responsiveness, of der in responsible of the some other good or service's price level.

> for a clear explanation of XED; 1 mark for an explanation that is less general meaning]

(b) 
$$XED = \frac{\% \text{ Change in the Quantity Demanded of Good X}}{\% \text{ Change in the Price of Good Y}}$$

[2 marks for correct formula for XED; award only 1 mark if formula is defined percentage change; no marks if numerator and denominator are opposite to

11. **A** – Coal and BBQs are said to be complements if they have an XED of -0.54. This price of coal leads to a decrease in the consumption of BBQs. Note that this relati is an option for the fuel for a BBQ.

[1 mark for correct response]



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### **Topic Test 1.2c How Markets Work: Supply (1.2.4–1.2.5)**

Movements along the supply curve are brought about by changes in price. Supplied changes by expanding or contracting output. If the price of an item falls, supplied their supply curve (a contraction) and supply a smaller quantity of the item. Shift factors other than price – e.g. production costs, technology, the number of firms, Decreased supply is represented by an inward shift of the popply curve rather than price.

[1 mark for recognising that contractions in by the about by changes in price; 1 decreases in the demand are brown, bo to non-price factors]

2.

(a)	hat the West Country orchard's business objective is profit in sits cost structure will have an effect on the supply curve. Here to is more efficient than the manual human labour used in the past. The efficient control is to reduce the unit costs of production by reducing labour the West Country orchard shifts rightwards (outwards) – because the fiprepared to provide more at any given price.
(b)	Subsidies are grants from the government that are designed to increase subsidy this essentially offsets their costs of production. Again, this mea West Country orchard will be able to provide a greater quantity of outp orchard's supply curve will shift rightward (outwards). (Note, it shifts up the old and new supply curve is the amount of the subsidy.)
(c)	If the price of pears increases relative to the price of apples the West Co switch production to pears. This is because pears are currently more professing techniques for these agricultural products are more or less exact are in competitive supply (substitutes). Hence, we can expect that the substitute of a competitive good increases. (Note, an evaluation point he time to grow a pear tree, so the West Country of the dare unlikely to supproduction in the short-run.)
(d)	Increases in the National Living constitute an increase in the cost orchard. Even if this force in the anybody that is earning the Natio causes upwar in the cost of all wages. Whenever a business' costs increase it is less profitable to do so than before. Hence, the would shift inward if this change occurred.
(e)	on the orchard's supply curve could go either way. First, they might sto altogether and supply bio-fuel instead leading to an inward shift of the also increase the production of apples and just sell their by-products to It is ambiguous.

[1 mark for identifying the direction of the shift; 2 additional marks for a strong expanded a weaker argument that still conveys the correct meaning]

3. There is a lot of information in the extract that will affect the position of the supp traditional Californian farmers' produce. First, the price of almonds has incentive production from row crops to orchards. This is evidenced by the fact that the alm increased from half a million pounds (lbs.) to approximately 2 billion pounds to would be reflected by a *leftward* shift in the traditional on et's supply curve as market decreases and shift production to the market of Lable almond crop.

Moreover, there has been a dr of the past five years. Unfortunation when there are drought of the get allocated much water by the State because during that period drees, however, must be fed water regardless of the callocated may be done on the entire State's water resources. Therefore, traditional forces on purchasing water during these drought periods. This production for traditional farmers meaning at any given price for their produce tess. Again, the supply curve has shifted left.

However, there is a little evidence that these farmers are getting more efficient. Toosts by reducing purchases of excess inputs. This effect could (partially) offset to because of the Californian drought. Therefore, the adoption of new technology we

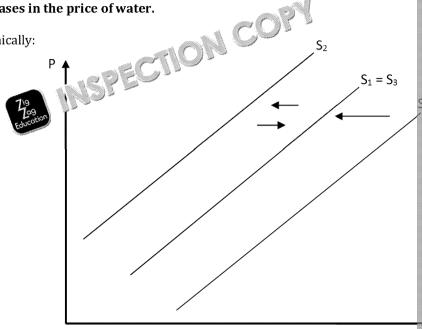
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right. The overall effect on the position of the supply curve will ultimately dependent benefits of this technology outweigh the cost increases of the Californian drough represents the initial position of supply in the traditional produce marker, S<sub>1</sub> rep have shifted towards almond production, S<sub>2</sub> is the position of the supply curve all traditional farmers, while S<sub>3</sub> is the movement after technology has been adopted. the diagram so long as it moves in the rightward direction – the magnitude of the judgement. In this case it has been drawn such as if the adoption of technological increases in the price of water.

Graphically:



[2 marks the diagram, plus 2 additional marks for the linking explanation]

4. **B** – The supply of Picasso's paintings can be represed d by a vertical line because regardless of the price offered, there and he any more supplied to the market

[1 mark for correct read

5. ticity of supply (PES) is the sensitivity, or responsiveness, of suppl price level.

> [2 marks for a clear explanation of PES; 1 mark for an explanation that is less general meaning]

(b) PES = 
$$\frac{\% \text{ Change in the Quantity Supply}}{\% \text{ Change in the Price}}$$

[2 marks for correct formula for PES; award only 1 mark if formula is defined percentage change; no marks if numerator and denominator are opposite to

A music streaming service would be almost perfectly *elastic* in the short-run. This service is set up, the provider will incur very few additional costs per unit, main

[1 mark for elastic; 1 mark for explanation]

