

2018 Edexcel AS Economics Paper 1 Microeconomics Paper

Model Answers

This document is helpful for longer essay questions/responses. Please reference the Mark Scheme for answers to Multiple Choice questions.

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Examiners' Report June 2018

GCE Economics A 8EC0 01



Question 1 (b)

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(b) Cuba's population is estimated to be 11 million. With reference to Statement 1 above, calculate the estimated number of doctors in Cuba. You are advised to show your working.

$$\frac{1000000 \div 155}{\approx 70967.74194} \approx 70968 \quad doctors in (uba)$$

1-1



This response shows the other acceptable response, with the candidate here dividing 11 000 000 by 155 to achieve an answer in the range of 70 500 and 71 000, as required by the mark scheme.



Again, a clear two-stage answer to the question.

Question 1 (c)

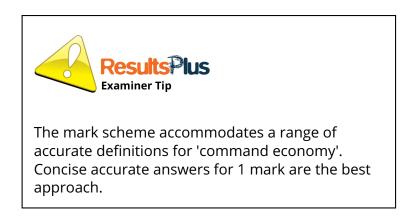
This was a well-answered question with the majority of candidates able to clearly define a command economy. Typical answers stressed 'centrally planned', 'government run', or 'no or limited private sector'. Less able candidates sometimes confused the definition with that of a mixed economy, hence the stress on 'all' or 'most' of the resources being allocated by the government.

(c) Define the term 'command economy'.

(1)the allocation through Command Browowa e Lonomy. an of vesources governm de cideo Stale intervention.



This answer is typical of a clear and concise statement which establishes the government at the centre of the allocation of resources.



Question 2 (a)

This question was answered well by a large majority of candidates and again the use of a two-step method using the data was essential. It was important for candidates to use the data to obtain the first mark, with both marks being reserved for a correct answer. A common mistake was for candidates to get the formula for Price Elasticity of Demand the wrong way around, dividing 8.3 by -5.4 and getting -1.54.

- 2 In February 2016 the Daily Mail newspaper increased its price from 60p to 65p. By August 2016 its sales had fallen by 5.41%.
 - (a) Ceteris paribus, calculate the price elasticity of demand for the Daily Mail newspaper over this period. You are advised to show your working.

(2)

×100 F 1 -0



In this example the candidate has clearly worked through the steps of the calculation, gaining the first mark for 8.3, and the second for the correct answer of -0.65.

Question 2 (c)

Another typically well-answered question, with the majority of candidates able to identify that 'ceteris paribus' meant 'all other things being equal' or 'all other factors remain unchanged'. Marks were lost by candidates who stated that all factors are the same or remained constant. It was crucial on this question to identify implicitly or explicitly that the variable being measured changes, in some sense.

(c) Define the term 'ceteris paribus'.

(1)everything else remaining equal, where the only change is the one being measured with no other change



This a detailed answer which clearly gains the available mark.



The use of the word 'else' after everything is crucial to gaining the mark. The second part of the sentence leaves the examiner in no doubt that the candidate can define the concept clearly.

Question 3 (b)

This question did cause some difficulties for candidates, though most were still able to score highly. Many answers developed inequality as a reason, with NHS treatment going some way towards helping those priced out of unaffordable private dental care. Another popular approach was to consider the positive externalities of state provision for employers or family members. Candidates often misidentified dental care as a public good and developed arguments along this approach. Some candidates argued that NHS treatment is free, though the data does indicate that it isn't.

(2)100 ΜΙΠ MADA TA9 D)

(b) Explain **one** possible reason why the state provides NHS dental treatment.



An excellent answer which scores 2 marks. The candidate clearly identifies that those on low incomes may not be able to afford private sector dental treatment. This is because private sector dentists aim to maximise profit, meaning that prices are higher than in the NHS.



Two marks are gained by the statement of a clear reason, followed by some development.

Question 3 (c)

A large majority of candidates were able to identify 'asymmetric information' as a situation where one party in a transaction has more or superior information than another. Many applied it to dentists knowing more about the need for treatment than patients, and thus charging them for 'unnecessary' work. The example of second-hand car dealers knowing more about the history of a vehicle than prospective customers was also very popular.

(c) [Define	the ter	m 'asymi	metric ir	nformation'.
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Asymmetric	information	is unon	16000
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A precise definition, referring clearly to 'the trading process', which is sufficient to gain the mark.



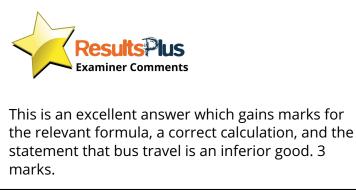
It is important to focus on 'the transaction', 'trading process' or something very similar here to be sufficiently clear.

Question 4 (b)

Though most candidates were able to score 2 marks on this question the majority were unable to score 3 marks. So, whilst candidates could define inferior goods and/or give a formula, and many could identify bus travel as an inferior good, there was insufficient manipulation of the data, e.g. calculating the percentage change in income, i.e. 6.2%, or the YED of bus travel, i.e. -0.48.

(b) Using the data provided, explain whether bus travel is a normal good or an inferior good.

(3)XVC x100=6.198%. 24,200 .48 -198% as it's YED is travel is an inferior good .48.



Question 5 (a)

(a) Define the term 'consumer surplus'.

A well-answered question, where the vast majority of candidates were able to score the mark. Consumer surplus as 'the difference between what consumers are willing to pay and what they actually pay for a good or service' was a typical response. A few candidates still confused the idea of consumer surplus with a market surplus, where price is above the market equilibrium.

5 The British Broadcasting Corporation (BBC) is a TV broadcaster. It is financed through an annual TV licence fee of £145.50. At this fee level many TV owners benefit from consumer surplus.

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consumer su	rplus is	the diffe	renæ betu	reen the
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The clear understanding of consumer surplus as the difference between what consumers are prepared to pay and what they do pay is evident.

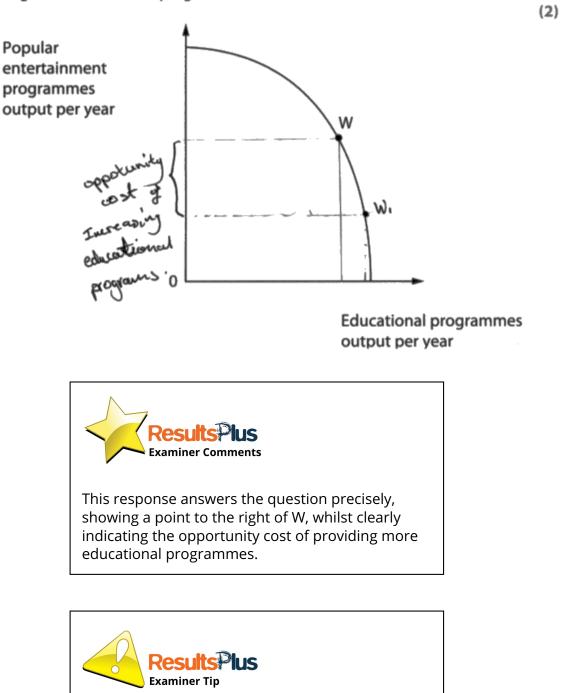


Use a precise definition.

Question 5 (b)

A small majority of candidates achieved full marks on this question. Most were able to identify a point to the right of W for 1 mark. However, many did not properly indicate the opportunity cost of providing more educational programmes. Some answers also shifted the curve outwards to indicate more educational programmes.

(b) The diagram shows the production possibility frontier for the BBC. Assuming the BBC is at point W, annotate the diagram to show the opportunity cost of providing more educational programmes.



Clearly annotate your diagrams. Opportunity cost is measured on the relevant axes.

Question 6 (a)

This proved to be a reasonably accessible question with most candidates scoring at least 3 marks, though only a small number were able to access all 5 marks. The question asked for a supply and demand diagram, and while candidates were able to do this most only drew a supply shift, thus missing the final analysis mark which required them to show a correct shift in demand and supply. Extract A and Figure 1 offered plenty of scope for the application marks, and candidates were able to identify both supply-side factors, such as Kazakhstan's stockpiles of uranium; and demand-side factors, such as falling public confidence in the nuclear industry following the Fukushima disaster.

6 (a) With reference to Figure 1 and Extract A, explain why the price of uranium has 'fallen to a 13-year low' (Extract A, lines 2 and 3) in 2016. Include a supply and demand diagram in your answer.

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(5)



This answer achieved 5 out of 5 marks. The knowledge mark is achieved in the second sentence with decreased demand for uranium. The candidate develops this in the context of the Fukushima disaster, thus accessing the first application mark. The candidate then goes on to discuss the stockpiling of uranium, accessing the second application mark. The diagram show both a price fall and the shift in both demand and supply for the second analysis mark. Both must be shown to get this second mark.



Always use the data to substantiate your points. Here the candidate does that sufficiently well enough to gain the available application marks, while gaining the analysis marks by showing shifts in both demand and supply. Be sure to correctly label the direction of the shifts. Question 6 (b)

(b) With reference to Extract A and your own knowledge, assess whether the supply of uranium is likely to be price elastic or price inelastic. regulations (10)Supply of wannun is likely to be inklastic due to the time paroson with lag mode increasing supply. Due to regulations would before opéning a trancum mune take a long time to build these Wely to as they these regulations are hunder and delay the production construction of the muse, Therefor producers would find et difficult to respond to an increase in demand For wancum, as it will take time and to extract open the mine the Supply wanun the be price ore lastic

Howevever to evaluate, this may only be in the short - term when new to be built, and in the need long-termi fonce the mene has glready been would be much easier For prod respond to change in demand tos therefore supply would be more price melastic in the ong-tim never likely un es

elastic. inclaston due to the small stockpiles & wanus in the world at the moment As we can see From Fig. I, there is currently a surplus of uranum of approxusately 3-4%. This would mean that producers would easily be able to respond to changes inderand as they do not need to extract more wanue due to the stock readily available. Therefore supply may be considered elastic

However, stockpiles & wanun are constantly changing which means the elasticity of supply would constantly charge too.



This answer scored 8 out of 10, achieving both Level 3 knowledge, application and analysis (KAA) and Level 2 evaluation (E). The candidate is clearly able to identify regulatory factors slowing down the building of a uranium mine and how this reduces the ability of firms to respond to an increase in demand. Although not mentioning the Spanish mine explicitly, or explaining the concept of PES explicitly, there is enough implicit understanding to score highly in terms of KAA. The candidate then goes on to consider the time factor, and how over time supply would be more elastic (though the candidate says 'inelastic', we can give the benefit of the doubt here). This is, therefore, a good evaluative comment, which is then developed further in the next paragraph. This is in context, referring to Figure 1, and moves the candidate into Level 2 evaluation.



Ensure that you consider factors determining whether the supply of uranium, in this case, is price elastic or inelastic. One side of the argument accesses the KAA marks and the other side the evaluation marks.

Question 6 (c)

(c) With reference to Extract B, explain two likely reasons why many consumers of energy have not switched to suppliers offering lower prices.

rational hehenriour is out consumers consume to magoods and by and Services not maximise utility \$ 4 million are still nouse holds wo expensive MOST votes $\sigma \gamma$ R COV this ng te B. extracte due to nou be WRC atas consumers anoutation underestimate The May Pro Bal λŧU equences Swit ching of the of COV able may net he and late 10 utility The TN ing get onsound energy bills conde rising The d but Switching low number CONSUMERS 3 also due to habitu Cord d mour be. 1 cading 20 irrotional Con Sum ron as may be too SOONCH 10 Jaze deals and Stick to , heft femiliar. 12

(6)



This answer achieved 6 marks out of 6. It begins by referring to the 4 million households still on the most expensive rates, scoring the first application mark, and then goes on to explore 'weakness of computation' as the reason, linking the explanation to the inability of consumers to calculate the additional utility that could be gained from switching. In the second paragraph the candidate again scores the application mark with a clear reference to the decade of rising energy bills and cites the reason of 'habitual behaviour' by way of explanation. This is then developed by saying consumers are too lazy to search for better deals, thus gaining the analysis mark.

Question 6 (d)

This was an accessible question for the vast majority of candidates and most were able to score between 3 and 4 marks. Candidates were able to clearly understand that the question was looking for sources of energy rather than energy itself. More able answers understood this because 'energy' can run out in the short-run whatever it is made from if demand is high enough. The question is about whether the source of the energy is renewable or not.

(d) Using examples from the information provided, explain what is meant by renewable and non-renewable energy.

Peneurable energy is an energy source onat Can be explaited over and over again Personable energy will naturally replenion order to be re-explorized in extract A Stated Thewal 94 Sources are e solar Drings WIND rower be explaited an one fore are not as sustainable. an Non - renowable energy is an energy sauce only be exploited once. energy can not represist non-kener and is normally natural based ares such as (a). gluays available ance ne 4 COLONEd~

(4)



This answer scored 4 marks out of 4 and clearly identifies how renewable energy sources can be replenished in order to be re-exploited, whereas non-renewable sources can be exploited only once. Examples are chosen carefully to substantiate the candidate's point.



A very clear and detailed answer which leaves the examiner in no doubt that the candidate understands the difference between the two energy sources.

Question 6 (e)

The UK Government is considering introducing a maximum price for energy.

(e) Discuss the likely microeconomic effects of this decision on energy producers and consumers. Include a supply and demand diagram in your answer. (15)prive Maximum is a form At of generation it aims to reduce market failures which causes and an efficience allocation of resource by setting a price ceiling. Extract & states that prices has incomed for 158%, for 15 years and four million brunchelds. Applying a morine price on energy which is underprovided can help bour 11 com have non access to energy people carn med 81 and general preter extensities Such as p, V crine rates as low income people swer may be more sortified of the government approach Rd. Qd. Qdz reducing their attempt attempt of a crim. Another Consumers is reduce to Encone Inegality as a lower income consumers could less sponding on living they would be man happens and benchits the society as then will be less porteal and the overall Society will have a positive attitude. He Common will gain more Supplu Supplus as prices are befor equilibrium gaining the pore which producers loss in surplus. Producers will fran effect of lower profic and provide turnerer as the price see below the equilibrium their willing willingness to previde 'n ac that price will demense from od, to Rd, This will cause les conjutiones as the price acts as Signally and incorreive function to fell producers to lean the martice because because then is less protic to be cared.

Head Strontage will ocam Slavyor AN 2017 here reason n yeur H (1) vormant failure may occur in the attempt to martice fato failure as adminstrative Com(e Lose may increase due to solling up a department to mailor and enforce the low Regulators will also need to be hind which will increase the case on the government threbaic opportunity cose will exise since the money used it forgene and Can be used in selver yours such as education. The Anonymitante of the maximin price may me be effective if the maximum price is set the just below the monthed equibrius then low forme family use built a pren be in it. Þ. 20,24 212



This answer achieved 13 out of 15. The KAA is at the top of Level 3. There is a clear diagram and then sustained chains of reasoning discussing how a maximum price can help lower income people, perhaps reducing income inequality. There is reference to rising consumer surplus, demonstrating strong use of economic concepts. Analysis of the impact on producers then follows, with a discussion of lower profits and the strong possibility of some producers exiting the market. On the next page there is some good evaluation referring to the administration costs of the scheme and the possibility of government failure. There is also some discussion of where the maximum price is set, in relation to the equilibrium, though the diagram isn't properly labelled and the point is less developed than the first. Overall, the evaluation is at the top of Level 2.



In depth evaluation is the key to accessing all available marks. Remember to label diagrams properly and sustain your arguments to gain full marks.

Question 6 (f)

Chosen guestion number:

EITHER

(f) Using the concept of external costs, evaluate whether nuclear power is under-provided or over-provided in the energy market. Use an appropriate diagram in your answer.

(20)

OR

(g) Evaluate ways in which government intervention could be used to reduce carbon emissions. Use at least one appropriate diagram in your answer.

Question 6(f) 🛛 .

(20)

Indicate which question you are answering by marking a cross in the box \boxtimes . If you change your mind, put a line through the box \bigotimes and then indicate your new question with a cross \boxtimes .

Question 6(g)

Write your answer here: Marginal social costs consist of both private and external costs (NSC=MPC+EC). External costs are those costs which are pared on to third porties during an economic activity. (e.g pollution) CIB NSC = MPC+EC. exare (or 0 NPC. e.c Pre pfm Α MSB=WPB (EB=0) ~ Output. () fm Ale Overproduction. As shown on the Liagram above the free market produces at Pfm Ofm, where only private costs and benefits are considered. However,

external costinexist income meaning that at Pfm Orm, the market undervalue, the true cost to society, an leading to overproduction Ose-Ofm, where market failure exists as MSC>MSB, and a welfore loss ABC exists To begin with according to Extract A, many external costs tear of nuclear to power exist as, indicating that nuclear power is overproduced. As stated in Extract AZ nuclear pour is 2 angerous as it can lead to explosions. For example the devastating accident at the hudeor power Mation! has led to a leak of radiation) (reduced confidence), and increased chancer of concer?! Therefore this accident could have devastating effects on the surrounding area and environment, at it could destroy habits and landicape, Break making the area less attractive for future investment! Additionally, inverved Marciel it concer could mean that there will be a loss of productivity, due to the a less health labour force, which could damage the countries competitiveness." For example in the UM, the UN's Productivity 15 17%. lest than the G7, mening that they couldn't rich a fall in producti-ity.

However, regarding the environment, nuclear power is definetely a better substitute than touil fuel AI raid in Extract C, carbon diaxide conjuions, evult tran the increase in the use of coal, gas, oil? and also extract A says that (no country can reduce carbon dioxide emissions, which are awaing dinate change, without the nuclear, Hence here we could argy e that actually nuclear power leads to external benefit, due to lowering the levels of (O2 in the atmosphere () mate change could cause hundreads of milions of people to suffer hunger, acuter shortage, and coastar flooding floorce with nuclear power, we are reducing there ext. costs thur gouiety Louks benefit from higher air quality of "sing nuclear. In this cause nuclear power har many external benefits induding me employment, and thus it could be underproduced. However, it is difficult to place a precise monetary value on externalities as it is very lubicative Allo we arame that extend sometits or nuclear owner

we o, hue they actually exist. Brexit, could lead to a fallin Expected remained for nuclear in general. Thur ext could will be lower!

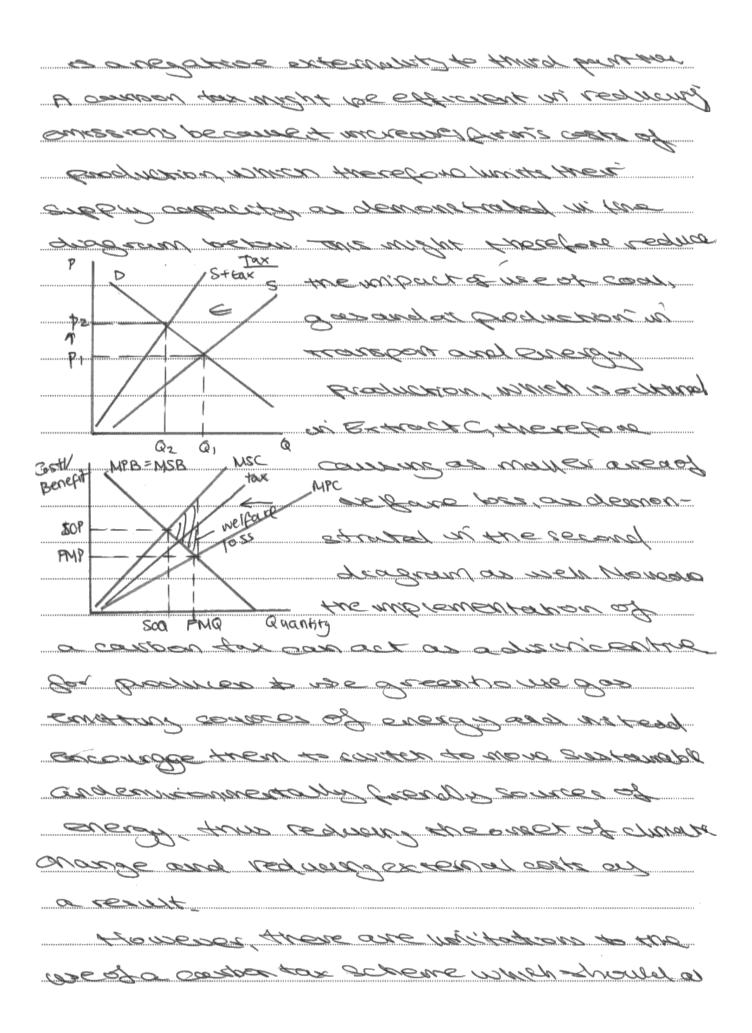


The candidate begins with a clear theoretical explanation of the social costs of production, exploring negative externalities in the production of nuclear power. The candidate then goes on to illustrate how nuclear power is over-produced, leading to a range of possible negative externalities, with clear reference to the context. The candidate discusses the dangers of nuclear accidents and then links them to the possibility of lower productivity in the UK if people are affected negatively by such accidents. This is very good KAA and accesses Level 4. On page 3 the candidate then proceeds to consider how nuclear power is under-provided, in context, helping to reduce the levels of carbon dioxide in the atmosphere, and therefore the impact of climate change, with positive consequences for humanity. The candidate also discusses external benefits from employment, although this point is less well developed. All of the arguments are in context and well explained. This answer therefore accesses Level 3 evaluation. The conclusion is not quite developed into a substantiated judgement.



Always try to 'anchor' an essay's analytical structure around a clearly drawn diagram, as the candidate does here. Interlink analysis and reference to the context throughout to build clear, well-substantiated points. Be sure to come to a conclusion at the end of the essay to access full marks.

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This answer achieved 19 out of 20. The candidate begins by exploring carbon taxes and analyses thoroughly in context. There is then in-depth evaluation of the effectiveness of this policy, considering the possibility of government failure. The second policy considered is the subsidising of cleaner 'low carbon' technology, using a subsidy diagram, and explaining in context how the policy is likely to work. The candidate then evaluates by considering the opportunity cost of such subsidies and how they might distort the price mechanism. The candidate develops the essay further by exploring tradable permits and evaluates by considering whether the policy is effective in the long-term, seeing it as only a short-term solution to the problem. Each point is clearly balanced with good evaluative commentary. There is also some assessment of which policy might work best, though this is not developed fully.



Carefully crafted paragraphs, which use the context well, are clearly evident here. Notice how the points are evaluated before the next policy is introduced, explained, and again evaluated. There is a good attempt at a conclusion.