



Examiners' Report June 2013

GCE Economics 6EC01 01



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Introduction

Overall, the paper was well received and it was pleasing to note a good standard of responses. Indeed, it reflects improved use of diagrammatic analysis. There were a significant number of superior answers which scored very high marks, particularly in the supported choice section of the paper. Very few candidates struggled to answer at least some of the questions on the paper.

Most candidates completed the paper in the time available though some struggled to develop their answers for the very last question. It is important to practise past unit 1 papers under timed conditions to strengthen exam skills. The performance on individual questions is considered in the next section of the report and there are two examples of candidate work for each one. These examples act as a guide as to why a question was well answered and also on how to improve further.

Section A: supported multiple choice questions

Most candidates found this method of testing highly accessible. The mean score for the supported multiple choice questions was 22.99 marks, more than 1 mark higher than the June 2012 mean of 21.77. In both of these series candidates scored highly compared to previous series. This appears in part, to reflect greater use of relevant diagrammatic analysis to support answers, particularly for Q2 (increase in price of eggs), Q3 (producer surplus), Q4 (derived demand for labour), Q6 (removal of government rail subsidies) and Q7 (external costs from a stone quarry).

The key to success involves defining the main concept(s) in the question (awarded 1 or 2 marks) and applying appropriate economic theory and analysis (usually awarded up to 2 marks).

Annotation of diagrams and tables is a good strategy, for example, Q1 (specialisation and production possibilities), Q3 (producer surplus), Q4 (the labour market for app programmers), Q5 (Income elasticity of demand) and Q7 (External costs from a stone quarry). In addition, Q2, Q6 and Q8 offered scope for candidates to introduce diagrammatic analysis as a means of demonstrating their knowledge and understanding of the issues at hand.

The foundation of this paper is an understanding of the price mechanism model and its limitations. Any suitable opportunity to apply the model should be taken. In order to maximise candidate performance it is possible to achieve the full 3 explanation marks even when an incorrect option is selected. This occasionally arose, particularly Q8 (market failure in education).

Some candidates gained marks by using the rejection technique. Up to 3 marks are available for successfully eliminating 3 incorrect options (provided that three separate reasons are offered). There seemed to be an improvement in the use of the rejection technique compared to previous examination series, although a simple reversal of an incorrect option is insufficient to gain a mark. It requires candidates to explicitly state the option key being rejected and then to offer an appropriate explanation. Unfortunately, some candidates still fail to identify the incorrect option key and so the examiner may not be aware that the rejection technique is being offered.

Several examples of how to successfully eliminate incorrect options are provided in the candidate responses shown in the report. A certain skill is required for this and it is important to practise the technique. As mentioned earlier, marks are not awarded for responses that simply reverse the incorrect option sentence without further explanation. Some value must be added to the answer. The mark scheme offers guidance on how to reject incorrect options.

Note it is perfectly acceptable to use a combination of techniques for securing the 3 explanation marks, for example, explaining the correct answer, diagrammatic analysis and eliminating one or more incorrect answers.

Section B: data response questions

The data response questions have a substantial weighting for evaluation marks (16 out of 48 marks). Consequently, it is vital that candidates make evaluative comments when required by the question. A 14 mark question comprises 6 evaluation marks (2+2+2) and a 12 or 10 mark question comprises 4 evaluation marks (2+2). An 8 or 6 mark question includes 2 evaluation marks. Attention should be directed to the quality of written communication (QWC), especially in those questions identified by an asterisk in the question paper. Here, candidates should attempt to develop a coherent argument and take into account grammar and presentation.

Although no explicit marks are awarded for QWC, it forms part of the overall impression that examiners take into account when awarding marks. Both data response questions were accessible to candidates. Question 9 (The price of cocoa) was a more popular choice with most candidates selecting this, compared to Q10 (The proposed expansion of Heathrow Airport). The scores for these questions indicated they were comparable in terms of the demand placed upon candidates and in the marking process. A higher mean score was recorded for Q9 than Q10. This was due to a significant difference in the quality of answers for the first question (a). In Q9(a) many responses offered suitable diagrammatic analysis of the reasons for the decrease in cocoa prices over recent years, shifting both demand and supply curves accurately. However, in Q10(a) many responses offered few economic reasons for the forecast increase in passenger demand at Heathrow Airport over the next few years.

Finally, an attempt has been made to break down and justify how the marks were awarded in the candidate responses used in this report. One should note however, that the answer to each question is really considered in its entirety rather than relying solely upon the mechanical breakdown of individual points. The latter exercise is for the benefit of candidates and teachers reading this report as to how the mark scheme is interpreted in practice. The examiner develops an impression of the quality of each response and uses the mark scheme as a guide to award marks accordingly.

Question 1

The question on specialisation and production possibilities proved to be surprisingly difficult for many candidates. Incorrect option C was a popular choice, where candidates mis-interpreted the opportunity cost calculations for Bob and Wendy in decorating a bathroom floor. However, marks could still be gained by defining production possibilities and specialisation of labour. A further mark could be achieved by stating that Bob should specialise in decorating bedrooms and that Wendy should specialise in tiling bathroom floors in order to maximise their joint output. Stronger answers used the figures in the diagram and identified that total output could increase from 3 to 4 decorated bedrooms and tiled bathroom floors.



Specialisation is where each verter carries out a single taske that they are good At present - Bob decerote 2 hidrogens and tiles I ballrown 3 of - Werdy tile 2 buildrowns and decorot. I hedrown Scach compilied at to increase and output. Wenty is latter at tiling and Bob at decorating is they denoted all of their tive to their bast task. : verdy tile & floor Bob decorates le hedroom output is increased by 1 in floor & hickooms. Bis mony is Bob cur decorationer bedrooms the redy in a reak (4 > 2) A 6 way as the cast for redy is 2 flows but the cast for hold is 0.5 floor $0.5\neq 2$



This answer achieved 4 out of 4 marks.

Correct option D (1 mark). An explanation of specialisation of labour (1 mark) is supported with figures to show how this could lead to an increase in total output of bedrooms decorated and bathroom floors tiled from 3 to 4 of each per week (1 mark). The candidate makes clear that Bob should concentrate his efforts on decorating bedrooms and that Wendy should concentrate on tiling bathroom floors. Rejection of incorrect option B is successfully undertaken by stating the output figures involved (1 mark).



Use the data provided in rejecting incorrect options. For example, many candidates failed to secure a mark in rejection of option B by not referring to the number of bedrooms decorated and bathrooms tiled by Wendy and Bob. It is clear that Bob can decorate up to 4 bedrooms a week whereas Wendy can only decorate 2 bedrooms a week.





Explanation

(3) cost is the alternative forgone when acturby malling choice, Specialisation occur when ¢ borson doe a Lask extremely and becomes docel Splitting 40 el Sindo 01 Small specialisation Increase Th. case 40 Bab that better bp Ìs at decorating PROUS Wondy 61ind loovs a vently 4 decontes B06 bedrooms OCV and biles bedroom deconta 2 an tilo 50 loors 15 Specialises in 5, d ocorabina Moors then SNP filina 1506 an decorate would would coms and shilo DOVS Incr ersing Weekly Wonter possibility shows how oods 60 onom COM N^ocluce PSOUVSPS are U amo



This answer achieved 4 out of 4 marks. Correct option D (1 mark).

This is an answer which defines specialisation of labour in a more developed way (1 mark) and then proceeds to use the data in the graph to show that Bob should concentrate on decorating bedrooms and Wendy on tiling bathroom floors (1 mark). In doing so, total combined output increases from 6 to 8 rooms per week (1 mark). A definition of a production possibilities curve is also awarded (1 mark).



Use the data provided in supported choice questions as there is usually one or two application marks available.

Question 2

This question was generally well answered with many candidates offering diagrammatic analysis to show the effects of new regulations that reduce intensive farming of egg-laying hens and so leads to an increase in the price of eggs. It was quite common for candidates to successfully use the rejection technique in this question, particularly for incorrect option A.

(3)SΛ a new regulation which prevent intensive farming of PA layeng Trens will reduce of 2000 produced, S & hifts D Sy calleing price to Kaft ta increase from P to Py (up to 20 pence / dozen according to the question) and quentity demand also falls from Gd to Gd 1 A is wrong because scares that eating eggs might be conhealthy will reduce demand, D will chift left like the diagram below: Price will fall from P to Po if D shifts left , not increase se correct answer is not A



This answer achieved 4 out of 4 marks.

Correct option D (1 mark). A suitable diagram of the egg market depicting a decrease in supply of eggs and an increase in price from Pe to P1 (1+1 marks) is supported by a rejection of incorrect option A (1 mark). It is a good example of how to use the rejection technique to gain a mark.



Always state the incorrect option key when using the rejection technique as the candidate has done in this case (option A).

tions on intensive Farming For eggs would decreane cause a ose in price A rise in price would cause and therefore spply and Marefore the price osers (PI to P2). less demand Price Sz 5 Po 1 ρ, DI Q, Q, Quanhty

Results Plus

This answer achieved 3 out of 4 marks.

Correct option D (1 mark). A brief explanation and relevant diagram of the impact of new regulations on the egg market is provided. It shows a decrease in supply and increase in price from P1 to P2 (1+1 marks). However, the answer requires more development. This could be achieved by explaining how the regulations would increase production costs for egg farmers who then try and pass this on to their customers by higher prices.

Another way to gain marks is through application to the context of the question. In this case candidates could refer to organic farming or free range farming which means that each hen has more space to move about in and so increases production costs. Less intensive egg-farming means lower yields per acre of land.



Apply to the context of the question, that is, refer to less-intensive egg farming and how it might increase production costs for farmers. This approach is worth a mark.

Question 3

The question on producer surplus proved to be highly accessible to most candidates. Many annotated the diagram depicting the market for potatoes by shifting the demand curve outwards and identifying the new producer surplus and equilibrium price.

-Producer surplus is what a producer gets above what they are willing to sell at. - It is the area below the Price level and above Curv produce sarphis = PeYX surplus = P, YM producer surphis = P, Pe XM rise because the deniand curve will will rise shift to the right.



This answer achieved 4 out of 4 marks.

Correct option B (1 mark). The candidate successfully explains the answer through annotation of the diagram. The original producer surplus and new area of producer surplus are clearly identified (1+1 marks). The demand curve is also shifted outwards to D1 and the new equilibrium price identified as P1 (1 mark).

The candidate proceeds to explain the answer further despite full marks already being secured. Note that a definition mark of producer surplus would also be awarded if full marks had not already been achieved (the area below the equilibrium price line and above the supply curve).



Be prepared to annotate diagrams shown in the question and offer a key to explain what is going on.

Producer swplus is the difference between the amount a producer receives from supplying a good and me minimum price mey are willing to receive, Producer surplus increases from triangle PeXY on the diagram to P. BY. NOT D'because consumer surplus also increases from Pexz to troundle P, BA. trangle



This answer achieved 3 out of 4 marks.

Incorrect option D (0 mark). A correct definition of producer surplus (1 mark) is supported by identifying its original area PeXY (1 mark) and its new area P1BY (1 mark). The explanation is quite sound. Unfortunately the candidate has made a mistake by selecting option D in the answer box despite properly rejecting it in the explanation. Only three explanation marks are available.

Results Plus Examiner Tip

Be careful to check your answers so that mistakes can be corrected.

Question 4

The question on the labour market for app programmers proved to be highly accessible to most candidates. As with the previous question, the best answers annotated the diagrams provided.



is the amount consumers are willing and able Demand 91 given demand HS nice All the ghanhy nce 10 23 from the and price br 6 0.00 quenit Increases Luore Conpon ader p hee emorel den the also increases Ha D his 50 Increases and of 1960 rate i Inch Ц 000 marker derived $\boldsymbol{\varphi}$ 191 C mai 15 ma lend DC 500



This answer achieved 4 out of 4 marks.

Correct option A (1 mark). Correct annotation of the diagrams, particularly the labour market diagram, depicting an increase in the demand curve of D1, a higher wage rate of W1 and a greater quantity employed of Q1 (1+1 marks). An explanation of the demand for labour being derived from the demand for the product it makes (derived demand) covers the key concept in the question (1 mark).



Consider explaining the key economic concept behind the question. In this case it is the derived demand for labour.



An increase in demand for new apps will shift the demand curve to the right D>D. Herefore increasing the quantity of apps and the price per New app a result the demand for labour AS increase 0 > 0, and therefore (will labour and wege the quantity of increase. Will rak

Examiner Comments

This answer achieved 3 out of 4 marks.

Correct option A (1 mark). The candidate explains and annotates the diagrams provided, in particular, shifting the demand curve for labour to D1, showing the increase in wage rate to W1 and employment to Q1 (1+1 marks). Further development is required, for example, an explanation of the derived demand for app programmers, to secure another mark.



Question 5

The question on income elasticity of demand recorded the highest mean mark of all the supported multiple choice questions on the paper. It required candidates to distinguish between normal and inferior goods, using the data provided on cereals in Sri Lanka and the UK.

A the demand for tobacco is income inelastic in both countries $ imes$	
B the demand for fish is more responsive to changes in income in both countries than the demand for tobacco ×	
C cereals are a normal good in Sri Lanka but an inferior good in the UK	
D a 10% increase in income would cause a more than 10% increase in demand for fish in both countries	pr
Answer C	
Explanation	(2)
YED: % D Quantity demanded of good	(3)
2/2 A incomes	· · · · · · · · · · · · · · · · · · ·
An insenior good has negative VED to its	ED is
lersman O inwhich the UK's it-0.02. A	romd
good has positive the YED and its YED is	>0 50
in sn' Lanka Cereals YED is 0.46 which	15
partive and more than 0 so is a normal of	000
It cannot be D as an increase in incon	mes
or 10% millead to 6.2%. increase in dem	and g
fish in sn'lanka and 3.6 % increase in a	emand cz
Total for Question 5 - A	market '

ResultsPlus

Examiner Comments

This answer achieved 4 out of 4 marks. Correct option C (1 mark).

The formula for income elasticity of demand is provided (1 mark), followed by an explanation of inferior and normal goods (1 mark). The application to cereals being a normal good in Sri Lanka with a YED of 0.46 and an inferior good in the UK with a YED of -0.02 is also credited (1 mark).

The attempt to reject option D is not quite correct. The candidate should have mentioned that for this option to be correct then income elasticity of demand for fish had to be above 1.0 in both countries. The very last sentence refers to income elasticity of demand being equal to 1.0 or unitary. This reveals how careful one has to be in rejecting incorrect options.

ResultsPlus

👃 Examiner Tip

Be careful using the rejection technique as answers have to explain why the key being knocked out is incorrect.

elasticity is the den 01 the grean 00 Income in good is the gronol NOT they choose 40 more he NON 13 other 420 0000 good angul



This answer achieved 3 out of 4 marks.

Correct option C (1 mark). The candidate defines income elasticity of demand (1 mark) and proceeds to explain the meaning of normal and inferior goods (1 mark). Note that a maximum of 2 marks are available for definition of economic concepts. Unfortunately there is no application to the information in the table, for example, use of the figures for cereals in Sri Lanka and UK.



Always apply economic concepts to the context of the question. There is usually at least one application mark available. For example, cereals in the UK are an inferior good because of the negative income elasticity of demand but a normal good in Sri Lanka because of the positive income elasticity of demand.

Question 6

The question on the effects of removing government subsidies to train operating companies was very well answered by most candidates. Many responses offered suitable diagrammatic analysis that shifted the supply curve inwards, reducing output and raising price of rail travel. Use of the rejection technique to knock out option C was also very popular. However, some candidates selected incorrect option A, confusing rail travel with motor vehicle travel.

A decrease external costs from motoring B increase the price of train services ✓ increase demand for train services D decrease air fares in Europe Answer B Explanation (3)1Le subsidizy is a grant payed by the to producers to encourage an increase government subsidies are removed costs production for firms In Crealse make profit and. honcre reduce supply. This WZJ cause the price for them scroices to rise subsidies may have otherwise keen used to pay wages 5 pace Price bud rises P \wedge 1_ to P. D ۱ Q, 0 quantity **Examiner Comments** Examiner Tip This answer achieved 4 out of 4 marks. Be prepared to use Correct option B (1 mark). A definition of a subsidy (1 mark) is

developed with an explanation of its impact on production costs for firms when it is withdrawn (1 mark). A diagram depicting the effects of withdrawing the subsidy is shown, shifting the supply curve inwards and increasing price from P to P1 (1+1 marks). Be prepared to use diagrammatic analysis with questions on subsidies. It is an effective way of scoring marks.

decrease external costs from motoring increase the price of train services B increase demand for train services C decrease air fares in Europe D Answer Explanation (3)P



This answer achieved 3 out of 4 marks.

Correct option B (1 mark). The candidate explains a government subsidy (1 mark) and then refers to how its withdrawal will increase the cost of running trains and so to compensate for this, the price of train services are increased (1 mark). There is not quite enough to gain all three explanation marks. More explicit reference is required on the funds or revenue falling for train operating companies and so they are forced to cut supply and raise price.



Be prepared to use the rejection technique when an answer appears too brief or lacking sufficient development. A popular rejection key was option C. Many candidates scored a mark by mentioning that an increase in rail fares will cause a contraction in demand for train services since they are less affordable - knocking out the idea that demand for train services will increase.

Question 7

As with previous exam series, candidates tend to find questions on market failure more challenging compared to questions on the operation of markets. This proved to be no exception, although many selected the correct option C but then did not develop their answers well. One notable mistake was for candidates to define external benefits rather than external costs in regards to extraction of stone from a quarry.



(3)ic externa 61 (0) a CTION SG a Maur lis Or a eni 1 N () a 0



Examiner Comments

This answer achieved 4 out of 4 marks.

Correct option C (1 mark). A definition of external costs (1 mark) is supported with identification of the area of welfare loss WXY (1 mark). Note that the candidate proceeds to reject option B as showing the incorrect area of welfare loss, but double awarding of marks was not available here. However, the candidate offers excellent marginal analysis on the diagram to show how the triangle of welfare loss would fall if output is reduced from Qe towards Q1 (1 mark). This is a sophisticated way of explaining why option C is correct.



Be prepared to annotate diagrams provided in the question. It offers an opportunity for candidates to demonstrate their knowledge, understanding and application skills of the topic at hand.



External costs is the negative third party effect ther as original marker transaction. Extraction of stone from a pollution erec. These we be and under pring Pe Quantity from Ge to G2 is many tauands the optimum level. from X to Y and it will reduce the nor helfac from YWX to WoXoY



This answer achieved 4 out of 4 marks.

Correct option C (1 mark). A definition of external costs (1 mark) is supported by application to the pollution created from extracting stone from a quarry, leading to over-production and under-pricing (1 mark). Excellent annotation of the diagram also gains marks - this includes identifying the social optimum (Y) and free market (X) equilibrium positions (1 mark), the area of welfare loss (WXY) (1 mark) and finally marginal analysis (1 mark). It is a shame that a maximum of four marks is available for this question.



Be prepared to apply economic concepts to the context of the question. Very few responses mentioned the type of external costs that might be caused from extraction of stone from a quarry, for example, air and noise pollution, traffic congestion from lorries or the negative impact on surrounding property prices. This was an easy way of scoring a mark.

Question 8

This particular market failure question was well received by most candidates. Many gained marks by defining market failure and a free market economy. A popular method of securing a mark was to reject option D which refers to government failure. One notable limitation was the relatively small number of responses which offered application to the question set, that is, explain the likely external benefits from education.

8 li	n a free market economy, an example of market failure would occur if	(1)
A	external benefits from education provision are ignored by the price mechanism	
В	firms enter a market in response to an increase in demand	
0	external costs are internalised by the price mechanism $ imes$	
D) government intervention in healthcare leads to a misallocation of resources \succ	
A	Answer 🕅 🦳	
E	xplanation	(3)
P	+ Free market economy is one in which rebu	reg
an	canocated by the premechanesm martet	
	Former occurs when the price meehantism can	esan
	menselve allocation of resources, leading to a	
	retuerfore with The pace mechanium of graves) /****
e	xternal benefets External benefets, Suchay	
	etucateon are benefet enjoyed by third parties in	the
C	ase a education, external benefets could inclu	ملاح
M	acunowildgewold and employable work force.	



Results Plus Examiner Comments

This answer achieved 4 out of 4 marks.

Correct option A (1 mark). The candidate offers definitions of a free market economy (1 mark) and market failure (1 mark), followed by an outline of possible external benefits from education such as more knowledge and an employable workforce. Linking this to higher productivity or profits to business would definitely secure another mark. The candidate provides a diagrammatic explanation of the external benefits from education (1 mark).



Apply the economic concept(s) to the question; in this case, an example of external benefits from education provision would secure a mark. A more educated workforce is a more productive workforce.

In a free market economy, an example of market failure would occur if (1)A external benefits from education provision are ignored by the price mechanism firms enter a market in response to an increase in demand В external costs are internalised by the price mechanism С government intervention in healthcare leads to a misallocation of resources D Answer Explanation (3)Market + astures when the price mechanism parts to allocate the Nesources efficiently thereby negulting in a net welfare in External benezits are the penezits to secondeption to a third early that are ignored by the price mechanism. Education's apublic good in a preemarked economy it is under provide dand under commend A gree market economy is one in which the resources are allocated through the price me chanver



This answer achieved 3 out of 4 marks.

Correct option A (1 mark). The candidate defines market failure, external benefits and a free market economy (1+1 marks). Note a maximum of two definition marks are available for a supported multiple choice question. More application to education provision is required to secure a further mark.



Apply the key economic concept (external benefit) to the context of the question (education) to gain a further mark.

8 In a free market economy, an example of market failure would occur if (1)A external benefits from education provision are ignored by the price mechanism B firms enter a market in response to an increase in demand C external costs are internalised by the price mechanism D government intervention in healthcare leads to a misallocation of resources Answer Explanation market Failure Occurs when the prize meehanism Fails to allocube resources efficiently. The correct answer current the option D since government Intervention would lead to government Failure. Costs, msc Beretilos het wellere mpc 125 MSB = MPB Generally Fmo

ResultsPlus

\prec Examiner Comments

This answer achieved 3 out of 4 marks. Correct option A (1 mark). The candidate defines market failure (1 mark) and just about succeeds in rejecting incorrect option D (1 mark). The diagram is not relevant since it refers to external costs rather than external benefits here.

Results Plus

Draw the demand and supply curve shifts on the same diagram to show continuity in the price decrease. Always label the axes, curves and equilibrium positions.

Question 9 (a)

This was a data response question that most candidates were familiar with. Candidates were tested on their comprehension and analytical skills of the information provided and were then required to use demand and supply analysis to explain changes in the price of cocoa.

This was a high scoring question as many candidates brought together a series of techniques, namely: making explicit use of the data; explaining the causes of the fall in price following a decrease in demand and an increase in supply of cocoa; drawing a relevant demand and supply diagram, labelling the original and final equilibrium price positions.

One fairly common limitation in the answers was to identify and explain just one curve shifting rather than both curves shifting.



The fact that there are "fears that Sunge is atening recension ' (Eschaet 1) means consumption of aca save money and reduce spending. As Europe people. cocoa this makes demand of consumer D inwards mon 6 D. A GOOD a main cocoa provider, providing 40 Coart supply for S. This global artou increar equilibrium price falling higher nus equil.brum with the



Here 6 out of 6 marks were awarded. A relevant diagram was offered which depicted a decrease in demand and an increase in supply, along with the original and new equilibrium price (4 marks). This was supported with reasons for the price decrease - fears of Europe entering a recession and so consumption falls, leading to a decrease in demand for cocoa, as well as a good harvest from the Ivory Coast leading to an increase in supply (1+1 marks). Note: a mark would also be awarded for explicit use of the data to show that price of cocoa had fallen from £2153 to £1410 per tonne over the time period - however, maximum marks have already been achieved.

Results Plus

Draw the demand and supply curve shifts on the same diagram to show continuity in the price decrease. Always label the axes, curves and equilibrium positions.





Here 4 out of 6 marks were awarded. The diagram shifting demand inwards (2 marks) is supported with the reason for the decrease in consumption of cocoa (1 mark). Explicit use is made of the price data in Extract 1 (1 mark). Unfortunately, no mention is made of the very good cocoa harvest in the Ivory Coast, the world's biggest producer, supplying some 40% of global output.



Carefully read the information in the extract as it clearly refers to the very good harvest as a cause of cocoa prices falling.

Question 9 (b)

Questions on price elasticity of supply have been problematic in previous examination series. Many candidates confused the determinants of price elasticity of supply with the determinants of price elasticity of demand. In this exam a good number of candidates scored 0 marks. Another common mistake was to confuse the movement along a supply curve with shifts in the supply curve. A significant number of candidates still made this error and even showed a diagram shifting the supply curve outwards and discussed how it caused the price of cocoa to fall.

However, there were some excellent answers and some candidates were able to achieve maximum marks.

(6) Ne cloplin Meabures the tesponeneus derente Change tun COLM Ubel 1PD (abit hur Y С long eve. Hoderah or Note Trees (da To proto C ull OHNU ŬreOho time to 0

1 als states that Stockalos eltrit there are 42 R NOO Tebe lar

ResultsPlus

Examiner Comments

Here 6 out of 6 marks were awarded. A definition of price elasticity of supply (1 mark) is supported with the idea that supply of cocoa is likely to be inelastic in the short run since at least one factor input is fixed, making it difficult for producers to raise supply (1 mark). This is reinforced by the idea that cocoa trees take up to five years to grow to maturity (1 mark). The distinction between the short run and long run is also made, finishing off with the idea that all factors of production are variable over time (1 mark).

Evaluation comes in the form of a discussion of the huge stockpiles of cocoa, with more than 400 000 tonnes available, which makes supply price elastic even in the short run (2 marks). This is well explained and even includes consideration of the perishability of cocoa stocks and how that might affect price elasticity of supply.



Make use of the information provided in the extract, for example, the length of time required for cocoa trees to mature and the existence of huge stockpiles. This makes it quite easy to prepare an answer for this question.

· The Ivory Coast supplies 40% of worlds . This means that they specialize in the produ cocoa and supply of cocoa is elas fore are able to creat ey com = responsiveness of a change in to a change in Cocoa is a non-perishable orefore it eastly stockpiled elastic as it harvest Pac suppl rstocks Buft use goverment to stock psle the good harvests and make even more elastic to pos demand- side ks. 00 S & clastic supply of cocoa Q supplied **Examiner Comments** Here 4 out of 6 marks were awarded. The answer is **Examiner Tip** a bit messy with bullet points being made, some of which are not relevant to the question. However, there Read the instructions of the is a correct definition of price elasticity of supply (1 question carefully. An evaluative mark), supported with the idea that supply is price comment is required here to gain elastic since cocoa is non-perishable and so can easily full marks. be stockpiled (1+1 marks). This is reinforced by the idea that cocoa can still be supplied in a bad harvest.

there is no evaluation.

Finally there is a diagram depicting an elastic supply for cocoa (1 mark). On balance the full knowledge, application and analysis marks are secured here but

Price elashary of supply is the responsiveness supply .01 's own price and to an initial change in the .Gund inelastic 00000 supply wcoa 15 Welly to be price as 0 makeng ingredien uh choco late consumers teu produc α India, such as Britain howe countres China they n here are many only taste chucolat 1101 n. these countries people ŁW. especially children addicted Ner QUQ. So never repred other ingredients 0 cucoa can ho ku. tor words subs hinen. 00.00 no substitutes However This depends chuco. d manu ruch CLS ewoo te There substrates AD. Nhnola 0 . CUre which perole substitutes from may allau lado olimano and decrease. un supply as .Ω resu Moreove 0 The. nar din n become. price replace , booo ouro they ull elashe maroden U more



Here 1 out of 6 marks were awarded. A definition of price elasticity of supply is offered (1 mark) but then the answer considers determinants of price elasticity of demand for cocoa and chocolate (tastes and substitutes). This was a fairly common error that candidates made.



Read the question carefully and make sure to differentiate between determinants of price elasticity of supply and price elasticity of demand in your revision programme.

Question 9 (c)

The question invited candidates to explore how a decrease in cocoa prices might affect the producers of chocolates such as Cadbury's Dairy Milk bar and Nestle's Kit Kat bar. Overall, it was well answered with more than a third of responses achieving 6 or more marks out of a maximum of 8 marks. Diagrammatic analysis and evaluation were common themes.

A minority of candidates misread the question and discussed the effects of a decrease in cocoa prices on cocoa producers or, discussed the effects of an increase in cocoa prices on chocolate producers. These responses achieved few marks.

(c) Examine the likely effects of a fall in the price of cocoa on the producers of chocolate products such as Cadbury's Dairy Milk bar and Nestle's Kit Kat bar. (8)If the price of cocoa were to fall the costs of production for producers of chocolate products would decrease. This would mean an outward shift of supply as profits are higher so there is more incertive to produce (S -> S,). This would cause a fall in price the price of chocolate products (P -> P.) and an PL P. te products (Q -> Q,) This may incr D mer nareas Q-> Q1 quantity where chocolate production great eq. Entrenand, as m 15 is ke ing supplied to the n ease as other costs of production

However, Extract 1 shows how ' [cocoa] only forms 61. of the price of a barof chocora mean that the supply of chocolate d es nat as fazorts of production are uch noigh or sugar were to increase at COBTS of production so supply of chocolate would decrease

Results Plus

Here 8 out of 8 marks were awarded. The candidate recognises that a decrease in cocoa prices will reduce production costs for chocolate producers (1 mark) and lead to higher profits (1 mark). This is developed further by explaining how prices of chocolate bars might fall (1 mark) and output increase (1 mark). This is also shown by a relevant diagram (1 mark). Consideration of how employment and wages might be affected (1 mark) offers further extension.

Evaluation comes in discussion of the significance of cocoa costs comprising just 6% of the price of a bar of chocolate (1 mark), and this theme is developed further, by considering how the cost of other inputs such as milk or sugar might affect chocolate producers (1 mark).



Keep the economic analysis simple so that it is logical and maintains relevance to the question set. It is a good example of the effective use of the economists' toolkit. Remember to offer an evaluative comment as part of the package.

fall in price of cocoa, will the lower the cost of produ chocolate as the costs of ra oducers materials decreased. Price 5-7 Quetity coloa An. in supply should causes ' increcke from Q, -> Q2 creating increase short run. This ken causes the from Pi -> P2 so the costs cing the chocdate decreases In evaluation, the magnitude in the fall of cocoa prices will effect how great decrease in the costs of production are. If the in cocca price is relatively small onen decrease of the checolate bar wat change addition, cocoa is only 6% a chocolate ber, so the prices of other ingredients as milk and sugar will effect the cost of chocolate products too.

Results Plus Examiner Comments

Here 6 out of 8 marks were awarded. The candidate recognises that a decrease in cocoa prices will lower production costs for chocolate producers (1 mark). This is developed by explaining how prices of chocolate bars might fall (1 mark) and quantity increase (1 mark). This is also shown by a relevant diagram (1 mark).

Evaluation comes in the discussion of cocoa comprising just 6% of the cost of a bar of chocolate and how a change in price of other ingredients such as milk and sugar might affect chocolate producers (1+1 marks). It just about scrapes the two evaluation marks available.



Be prepared to extend economic analysis, for example, consideration of producer surplus, profits, share price, employment and investment of chocolate producers.

Question 9 (d)

Candidates were required to evaluate the likely consequences of fluctuating prices for cocoa producers. This question was the most challenging on the paper. A similar question had been set on the specimen paper for this unit and so candidates should have been familiar with the requirements to achieve high marks. Some responses focused on the causes rather than consequences of fluctuating cocoa prices and so scored few marks. Other responses barely developed the pointers in the extract concerning unstable income, employment and investment for cocoa producers. Another mistake involved answers that only considered chocolate companies rather than cocoa producers.

However, there were some excellent responses which remained focused on the tasks at hand, particularly concerning the relationship between cocoa prices, producer revenues and the quality of life.

Ore acer CONEQUENCE Juchillo ONCS. Etro. chald wall hl. MUCH CONSEGUENCE wald make This wald a RENOR MOS Wane ncen EW ENVO bues d an none wald Sulehin een ad 12 ran alle cittold NECESSIE due E. the fact the tw Shart ron. It ωU Plin 56 Switch RESCUCES 0 the the upple the Increality Shell

A second as converguence and be unstrubulity in employment. When cocora prices are not low, the producers may not be able to keep all styly employed and so to an astern it would create a type of second viemplaypent for the to produce of accord More than when price or high the wald to alle to employ more. However, this call be slipped, when price are law is wall more there was a surplus of accor and so is cover he the cose that more per ucicus will need to be employed to hondle to high geontity of aroca. A juriel consequence would be the applications onstabilits of chiestment in course formers. When revenues are a is wich that added fermin and attact more unigement unicin water encise onep to perchase more copital atrils could be card & same more exprisently, comproving productives and leave unit cost Havere upon the revenues are lew the mustment in cocoa formes which at look a appealing, & even though a but g coverement programe all these os needed to empicie the strution.

in all, the extend of the conections deme nn QU rcn Ø $(\alpha \alpha \alpha)$ reductor eleshi C Etu XC CLIONUR term NC U demona uni ROS demoded nno Ce

ResultsPlus

🔫 Examiner Comments

Here 11 out of 14 marks were awarded. The first paragraph considers the uncertainty over how much revenue could be made by producers depending on whether cocoa prices are high or low. Diagrammatic analysis would help here. The affordability of luxuries or necessities is raised. Some evaluation if offered in terms of the long growing period of 5 years which makes supply inelastic and there is little that can be done by cocoa farmers (2+1 marks)

The second paragraph considers how fluctuating prices cause employment to rise or fall and that it may be seasonal in nature. Evaluation comes in the form of flipping the argument and suggesting that when there is a good harvest then more workers may be required even though farm revenues are low (2+1 marks).

The third paragraph investigates the implications for investment. High prices mean more investment, leading to greater productivity, efficiency and lower unit costs. The analysis is quite well developed here (3 marks).

The final paragraph considers the relevance of price elasticity of demand and its impact on revenue for cocoa farmers. It is a good evaluative point to finish with (2 marks).



Use the prompts in the extract to help structure your answer as this candidate has done (concerning unstable income, employment and investment for cocoa producers).

Fluctuating Prices Forcecoa will be aky Fador For Cococ produces to conside. Fluctuating prices could be considered as a good thing for the producers_ IF there is a global boom, incomes are higher, people will wont mere luxury goods hard therefore chocolate This will creat shigh demond for cocoa and prices will rected high due to its responsiveres allowing For a luge producer suppose and increases in revenue Profits. The obvious flow to Atis is if there is a Reglaber recession, Like the pust Few years, where demand for cacoa Fuls damatically, leaving prices low and produces with very tiltle The three main consequences of pirce Auduchians are instability in income, employment and investment. unstuble employment in each countries like the inequalities a veg morging Factor as Avir is great memply most accross the country any way, it will be difficult to find a new job. Probably the most important long term consequence would be the last of investment From Fins to expond the Cococ Production and the luck of investment in efficiency. Without Significent investment, production of corea will always be unceliably in the anoust havested and duck per techniques and the accountability of the weather To conclude Price Fluctuations cause great instability in

enstable income levels, poor job security and negative

ResultsPlus

🖣 Examiner Comments

Here 7 out of 14 marks were awarded. The first paragraph considers how high cocoa prices that come from a global boom could be a good thing for farmers in terms of increasing revenue and profits. The downside to this is a recession which causes very low cocoa prices and falling revenue (up to 3 marks).

The second paragraph begins with a quote from the extract concerning unstable incomes, employment and investment (1 mark). The third paragraph focuses on implications for investment and how a lack of it leads to less efficiency, reinforcing the unreliability of cocoa production. This is considered to be the biggest problem of fluctuating prices (2 marks). The conclusion just about scrapes a mark in summing up the effects of fluctuating cocoa prices, namely: the terrible effects of unstable income levels, poor job security and negative incentives for investors (1 mark). On balance it is just about worth 7 marks in total.



Be prepared to offer diagrammatic analysis to explain the link between price instability and total revenue for farmers. The concept of price elasticity of demand is useful here.

Question 9 (e)

The question invited candidates to evaluate the likely economic effects of a guaranteed minimum price scheme for cocoa in the Ivory Coast. A minimum price diagram was required in the answer. It proved highly effective in differentiating between the quality of responses. The best answers offered an accurate diagram depicting an excess supply of cocoa and the area of government expenditure, supported by both economic analysis and evaluation. Popular evaluation points included consideration of elasticity, opportunity cost to government and the response of major buyers and the position of the minimum price in comparison to the free market price.

However, some responses confused the minimum price scheme with a buffer stocks scheme and so few marks were awarded for the diagram and resulting analysis.



This will have be exicul economic effects to the producer in the Troy Good is their incomes will be greenenteed, since the Cost will purchase my suppluses have shed. In fact their incomes will actually increase, as their total revenue will increase to ever OP2Y Q ton te original O PEZDE. & This will alid help reduce rund-urban inequality, Additionally he increased certainty of the 10000 marlet in hoy Cosit will encourage greater incornect in new ntensice cor of forming methody for example, Abter significant economic effect worked be that the Log Cost consumer, even in times of bod havest. Oh the other hand, there is a sufficient quantity of disadvantages that are involved when the Golt imposed the minimum price sclene Firstly there is a significant opportunity cost includ to the Gost arthey are forgoing the lext best alternative option of Low to use the noney. This may be for exangly reducing the Hiscar deficit, Louening taxes, or even rubsidising am technology

method to increase supply of cocod. In addition the minimum price releve on M weate a apprelary culture, as the producers of cocod become economically it figent as they be come to what on the Cost purchasing heir surpluses This is government failure, as Cost interaction leads to an ineficient all or abion of Repources leading to a ret wellare loss to society. Tikeman this nay be a cost of the tax payer's noting the Brendry because the surpluses i produced by He farmers sha may have be she dupped or destroyed, which once seain is an inequicient allocation of hesources,

nininnum eding in (Total for Question 9 = 48 marks)

Results Plus Examiner Comments

Here 14 out of 14 marks were awarded. A definition of minimum price (1 mark) is supported by a relevant diagram depicting both excess supply and the area of government expenditure on purchase of the surplus (4 marks). The beneficial effects for producers include incomes being guaranteed and their revenues increasing from 0PeZQe to 0P2YQ1 (1 mark) and so reducing urban-rural inequality (1 mark). It should also lead to greater investment into cocoa production as well as guarantee supplies to consumers even in times of bad harvests (1 mark). Clearly, the maximum 8 knowledge, application and analysis marks have been achieved.

Evaluation comes in the form of discussion of opportunity cost to the government in purchasing cocoa surpluses (2 marks), the danger of a dependency culture being created where farmers become inefficient and reliant on government purchases (2 marks) and consideration of government failure in terms of dumping or destroying surpluses (2 marks). This is reinforced by discussion of the position of the minimum price in relation to the free market price. The maximum 6 evaluation marks have been achieved.

Overall, it is a very sound answer that is full of relevant economic analysis, application and evaluation.



In questions with evaluation marks, be prepared to consider the positive and negative effects of the topic at hand. In this case, the positive effects of a minimum price scheme provide knowledge, application and analysis marks whereas the negative effects offer evaluation marks.

I minimum price scheme is a Stor price for poducors a governament again will set Ris minimum prile. EXCESS SUPPLY P prile government Pa expenditure 95 Q Re With a minimum vice scheme, producers will be more enturged to wooduce cocoa as they will receive a fixed price per unit of to coa which is abone equilibriu price "this means that income for 6000 producers will be more stabilised and therefore they' Il be able to do more investment in their machinery in order to wooduce more, since they are moved by the profit incentine This will lead to a greater in producer supplies, but a ma lover conserver But los manthes surplus. In fact, as we can see from the diagram, quantity supplied is greater than quantity demanded.

The government will have a Ginancial pressure Keen bu az 6000 woduced Stom Wodu Now even, excess N Q rtienes men govern nou cent Ome IXa Yall JUD Xaul U he. Solerament al ould damade into antie. ne 20100 5 exct the

Results Plus Examiner Comments

Here 12 out of 14 marks were awarded. A definition of minimum price (1 mark) is supported by a relevant diagram depicting the excess supply and government purchase of it (4 marks). This is followed by a discussion of producer income being stabilised and how it might lead to more investment (1+1 marks). Then a brief consideration of the impact of the scheme on producer surplus and consumer surplus is made (1 mark). A maximum 8 knowledge, application and analysis marks are achieved.

Evaluation comes in the form of discussion of the impact on government finances (2 marks), the positioning of the minimum price level (1 mark) and the possible effects of dumping cocoa overseas (1 mark). This answer achieves 4 evaluation marks.

Results Plus Examiner Tip

Be prepared to use the extract for obtaining ideas on evaluation. For example, the extract refers to the possible response of cocoa buyers to the minimum price scheme and whether they will seek to purchase from other major producers such as Ghana and Nigeria. This represents a good evaluation point to develop rather than solely relying on factors outside of the extract.

Question 10 (a)

Candidates were invited to explain two possible reasons for the forecast increase in passenger demand of 15 million using Heathrow Airport by 2020. It provided an opportunity to apply demand determinants to the air travel market. Some pointers were provided in the data, particularly Figure 1, concerning income elasticity of demand figures for business and leisure travellers. The more successful reasons given related to an increase in incomes, population or price competition in the air travel market. Overall, many of the answers were quite limited in development of points.

Two reasons for increased passenger demand of 15 million & Using Heartrow Airport by 2020 could be increased disposable income levels leading to increased lessure holidays & increased globalisation or Firms hading to increased business Fravel. AS you can see From the Figure 1. He VED For bisure passencers air travel is positive & elastic meaning an increase in income levels leads to an increase in quantity demanded for air travel. In most economies, ceal disposable incomes cise over time so der 1-his is likely to result in more demand for For lessure air travel which increases the number of passengers likely to use Heathrow Airport in the Future. Secondly, globalisation of firms leads to increased business travel as it requires firms employees to commute to other economies on a regular basis

For business purposes. As you can see from figure YED For business air travel is 1.2, which is positive & elastic which result in increased demand Fravel, if the profit levels of Firms increase. This will regult in increased mand for Heathrow Airport in rie Future

Results lus Examiner Comments

Here 6 out of 6 marks were awarded. The first reason offered is the rise in disposable income levels leading to increased demand for leisure holidays (1 mark) which is developed further and supported by reference to income elasticity of demand data in Figure 1 (1+1 marks).

The second reason offered is globalisation, leading to increased business travel (1 mark), as it requires employees to commute to other economies on a regular basis to conduct work (1 mark). Reference is also made to income elasticity of demand data in Figure 1 and the idea that firms could make more profits and so increase further the demand for air travel at Heathrow Airport (1 mark).



Follow the instructions of the question and focus on just two possible reasons for the forecast increase in passenger demand at Heathrow Airport. Many responses gave more than two reasons but offered little explanation.

Busitellaren many choose to go to bondon to investion comparies. we Norther Aipat to get Dec. By 2020, willin fassengers B. Seman possibly due to De cut in ane feefle gein. D increase in passenger demand using Healboar Airpa any rights here the barg gabb han are for fleathow Arport as more Neather Arport 3 are way of gulting



Here 4 out of 6 marks were awarded. The first reason is the increased investment by businesses in London following cuts in corporation tax (so more people going to London - presumably travelling by air) (1+1 marks). The second reason relates to London as a global hub where more people visit for tourism as there are many sights to see - and air travel is one way of getting there (1+1 marks). Both reasons are valid but are not sufficiently developed to secure full marks. Perhaps figures on the cut in corporation tax could be offered in the first case and an explanation of where the visitors might be coming from in the second case - linking to the growth of emerging markets such as China and India.



Offer more development of the two reasons given for the forecast increase in passenger demand at Heathrow Airport. There are 6 marks available here.

Question 10 (b)

This question required candidates to discuss why business and leisure air travel passengers have different price elasticities of demand as revealed by the data in Figure 1. It proved to differentiate effectively at the top end of responses. Few responses achieved the full 6 marks available while a good number achieved 4 marks. This reveals that many candidates struggled to offer an evaluative comment.

Price elasticity of demand is. responsiveness or demand to poduit. change in price a PED Stights The br business passengers -0.2 this Megns that the the lastic 1S the value is < |due Hights would 60 br essential *Busiless* the peep running However SUDSTITUTE Genia Flights Was developed such as development oł technology. which world allow busiliess halle meetings online over ma Weblams easier De came USE PED d Flipts DUSTRESS probably elastic. inverse, more becoming PED for leisure PASSEAGETS - 0.7 Ravie (s <) is still the lastic -TA However not onia as DUSINSS rlights because they 0.5 reciessity 100 SU SPel CONS UMERS amilable Svc aS bravelling not holidaying as 6 country har away.

ResultsPlus

Examiner Comments

Here 6 out of 6 marks were awarded. A definition of price elasticity of demand (1 mark) is followed by an explanation of business and leisure passengers having an inelastic demand (1 mark), although leisure passengers have a less inelastic demand at -0.7 compared to business passengers at -0.2 (1 mark). The final KAA mark comes from suggesting that leisure flights are not a necessity and that substitutes are available in terms of holidaying at home or to a country not far away (1 mark).

Evaluation comes in the form of suggesting that the development of new technology would allow businesses to have meetings over webcams and so business flights might become more elastic over time (2 marks).



Make explicit reference to the data provided in the question, explaining the meaning of the elasticity figures. Offer an evaluative comment with questions that contain the word 'discuss'. This candidate has been successful here.

Price destity of demond is the responsiveness change in price. The price of demand 60 elasticity of demander for Business passagers which nears it is highly inelastic. -0.2 This means demand changes exe only a low propertien change in Price. 56 may be like 60 business because the they have a considerable at noney to be able anane to affod also most business grave a impossibilit prices and see Gavel as a mesercity. For business and Lesuire passenges PED is '-0.7' which meens if less d'inetatic due to their being more available substitutes to tesu fravel such as continued expension of Euroscar rail. 51 Ri. മ QI \mathbb{C} Businesses Lesdiress 0 Business have be a smaller decrease in devind

ResultsPlus

🔫 Examiner Comments

Here 4 out of 6 marks were awarded. A definition of price elasticity of demand (1 mark) is supported with an explanation that both business and leisure travellers have an inelastic demand (1 mark), although leisure travellers is less inelastic (1 mark). Development comes in the form of explaining that business travel is more of a necessity and more affordable compared to leisure travel (1 mark). Some very pleasing diagrammatic analysis is offered but the maximum 4 KAA marks have already been attained. There is no evaluation here.



Be prepared to offer an evaluative comment with 'discussion' questions no matter how vague it might be. There is always a chance of gaining marks.

Question 10 (c)

The question required candidates to use the concept of cross elasticity of demand in assessing whether train travel is an effective substitute for air travel. The mean score was less than half marks and this reflected the difficulty many candidates experienced in securing the full 6 knowledge, application and analysis marks available. The 2 evaluation marks appeared to be more accessible as many responses suggested that train travel is a weak substitute for air travel when it comes to inter-continental flights and offered real world examples.

(8)(50) Cross elastraty of denand is the responsiveness of your A to a drange is price of good & It is calabated as percetage charge in temand of good percentage change in prices of good Substitute goods are alternative goods, they have a positive XED value, for example as an increase in the price of air travel of domestic London to monchester will cause an increase in He demand for cheaper trai substitutes It is confirmed that traintravel is a substitute for out travel as most durity: portes are "well served by train" Tran travel may be seen as an effective substitute because it is likely to be H is also cheaper use and more affordable than air travel, and meet most locations are well served by "trai donestically and the expansion if the encostar, most european atrie are each accessible

However It may not be seen as effective as stoned there are differences service Tran Hand has a takes longer threfore deference i cost with the price difference. for lessing the travel time people rate trains as the extra time travel is not a constrainto be a problem as getting to place this may be say as an effective substitute gitting to a dictingition Same end result up adlat availability leg you cant may make it a weaker substitute

Results Plus Examiner Comments

Here 8 out of 8 marks were awarded. A definition of cross elasticity of demand (1 mark) is supported with the idea that such goods have a positive relationship (1 mark); application to domestic flights between London and Manchester is offered (1 mark) and reference is made to the extract, for example, air travel for most domestic routes is 'well served by train ' (1 mark). Train travel may also be cheaper and so more affordable than air travel (1 mark) and that the expansion of Eurostar rail services has made many European cities accessible by train (1 mark). Overall, the answer is sufficiently developed to merit the full 6 KAA marks.

Evaluation comes in the form of discussing how train travel may take longer than air travel and so be a weaker substitute for business users compared to leisure users where time might be less important. There is also an interesting and perceptive remark on the lack of availability of train services, for example, you cannot get a train to New Zealand (2 marks). On balance, the two evaluation marks are secured.



Make use of experiences with air and train travel as this could help shape your answer and gain marks. For example, the price and availability of services or the reliability and time taken to travel between certain places.

(8)(ross elesticity demand = sit one sig suggests that trong the Since it say while for for or travel to Europe could early be comed out by and short slights the cross elections greats a demand could be e as the two may be goods are Entituter, and on short trips to as they may be cheaper of time could be negligible. However, on longer had glight the cross electicity of demand is less than I and they would be weather S. betitito ose ton not fossible a option for these travelles. egs . m

ResultsPlus

\prec Examiner Comments

Here 6 out of 8 marks were awarded. A formula of cross elasticity of demand (1 mark) is followed with reference to the extract where domestic and short haul flights could easily be carried out by train (1 mark). A high positive cross elasticity of demand relationship is identified for short trips (1 mark) where train travel could be cheaper and have negligible difference in time (1 mark).

Evaluation comes in the form of suggesting that train travel is not an effective substitute for long haul flights as this mode of travel is not available to cross oceans or the time taken is far too long (2 marks).



This is a very promising answer which just needed a bit more development in terms of analysis and application, for example, a diagrammatic explanation of the XED relationship or more use of the information in the extract concerning Eurostar rail services.

Question 10 (d)

The question required candidates to evaluate the case for building a third runway at Heathrow Airport using the information provided and their own knowledge. It gave an opportunity for candidates to develop a coherent economic argument and form a point of view. Overall, it differentiated effectively between the quality of responses. The best answers considered the benefits and limitations created from a third runway, offering economic analysis and evaluation.

* Gleaste 140,000 jobs * lack of Bleign investment * 4.5 bn lost from GOP * EliG bn lost in trado * demand will increase by \$15 million * 99.2% cafacity * could use train-Exposion * Extra Pollution - 900 extra Phighter * other airlosts - Graduickets * Sufer Sized auflight To some extent, building a third run way "will be the best office because it will have lots of external benefits. This will flow de around 140,000 Jobs which will lower wemployment and bring us closer & fullomployment. This will also boost GDP by \$4.5 billion. This could lead to future investment Fultlermere this could bringin Elibertian trado. This would imployette current account balance and through Ne multiplier eff act, this will increase. love over, Heathrow is alled alleady full, at 99.2 % employment In 2020, # it is estimated that nearly 15 million more passengers using Leathrow. This will fush Healthrow Past full cafecity. a third runway will enable them to rendle this huge amount of payle. However

Here are downsides to a third runway The 100 extra flights will cause a lot of in crased Pollution which will demage to environment and contribute towards global warming. Furthermore the construction of a third runway will mean many People in SiPSon, Heathow and Harlington Will loose their homos to make usery for the runway. This will also to The building work will elso cause lots of noise and Visual Pollution. Furthermore Here is already a shortage ofhomor and this will increase overcrowing. Therefore other atternativer should be looked at one other atternative is to advice fearly to use the train for Sharter journeys within the UK and to Europe & Via the Eurostal. Another alternative is expansion of other airlasts Such as gatuick, Stansted and Luton where Significant Spare earlacity exists. This will still provide the jobs however People may & Still want to go to Heathlow as it is more accessable and is closer to contral Landen.

might be good to look 1200l đ to COMP

Results Plus

Here 12 out of 14 marks were awarded. A case is made for building the third runway by outlining the information provided, for example, the creation of 140,000 jobs that will lower unemployment, an increase in GDP by £4.5 billion, greater future investment and a £1.6 billion boost to trade that improves the current account (2+2 marks). Another case is made in terms of the airport running at 99.2% of capacity and how it needs to expand to meet the forecast increase in passenger demand (2 marks). Overall, 6 KAA marks are just about scraped in this answer. More development of these points is really needed to gain full marks.

Evaluation comes in terms of external costs, for example, the increase in pollution from an extra 900 flights daily, (adding to global warming, noise and visual pollution) and the destruction of many homes in the area leading to overcrowding (2+1 marks). Discussion then turns to the merits of alternative options such as the expansion of Eurostar rail services and other airports where significant spare capacity exists (2 marks) or even the building of a new airport in the Thames estuary (1 mark).



Use economic analysis to develop the points made in the extract so that value is added to the answer.

With the third running at Heathrow auport Here eve argument per and against going sheet with the construction

As it states in Extract 1 Brithin un lose ent in _____ 140000 jobs' new this means that you mis out on electroesines when degrees the liture so this teres array the chance of 140000 peoples standard of wines inetensines.

However this is only in the future and the research conducted may not be very accurate.

Also with the construction of a third run way, this could polentially load to '14.5 which of GDp "because of a full in portaign investment' now with their americant of money is can help boost the earneney as if decide to course in the UR their neares more forms in the earneney [member so night ampetitoioass polentially bedding to price of good/services falling.

On the other hand the this ear bad to higher noise and Co" pollutions, increasine, "external costs" negative external likes.

Paus the 3rd runney would bad to people toney 'displaced' as their nousing are last so the gavernment may have to pay per the constructions of new houses to velocate, casting eight never needs for the garden

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ResultsPlus

\prec Examiner Comments

Here 10 out of 14 marks were achieved. The case for building the runway is put in terms of creating an extra 140,000 jobs and so raising living standards for many people. Other benefits are mentioned such as the £4.5 billion increase to GDP, the rise in foreign investment, competitiveness, revenue to construction firms and £1.6 billion gains to trade (referred to on the second page in terms of losing these benefits if not built) (up to 5 marks).

Evaluation comes in the form of considering the disadvantages of building a third runway, for example, an increase in noise and carbon dioxide pollution as well as people being displaced from nearby homes (2 marks). The possible opportunity cost to the government (that may help fund part of the infrastructure costs which come with the runway) is also raised (2 marks). The final sentence is credited where the candidate suggests that using substitutes (presumably rail travel) would lead to significant environmental benefits through less pollution for people living near Heathrow (1 mark).

Overall, the candidate investigates various advantages and disadvantages of Heathrow Airport expansion but never really develops them fully. Nevertheless, some value has been added to the prompts in the extract. On balance an overall mark of 10 is about right (an attempt has been made to break down these marks but appears a bit artificial).

Results lus Examiner Tip

Develop the points in the extract, using economic analysis and evaluation so that value is added to the answer.

Question 10 (e)

The question required candidates to examine the likely economic effects on air travel of the increase in Air Passenger Duty (APD), using a supply and demand diagram. It proved to be another question that differentiated between weak, average and strong responses. Perhaps the most notable limitatation was the relatively large number of candidates that drew an incorrect diagram, shifting the demand curve inwards (rather than the supply curve). Another limitation involved responses that strayed from the question which required a focus on air travel rather than the wider economy.

However, some excellent responses were recorded that combined economic analysis and evaluation with the information provided in Figure 3.

depends how big tax is - can't Greslaff. -8 6 PED *(e) Examine the likely economic effects on air travel of the increase in Air Passenger KRA EV Duty (APD). Use an appropriate demand and supply diagram in your answer. A) = consumer burden of tax. B) = producer burden of tax. (14)pBT indirect tax therefore it Sttax APD is an by the government producers. taxpon the PZ A ce supply curve to move inwards from S 1Pr ß Strax and consequently prices rise demanded from P, to B and quantity, decreases Q2 Q1 Q, to Q2. The 2 hours revenue The from firms will increase their total air and costs ter prohits decrease consequent revenue , hence mail and less to spend on investment may technology and they may not be able services. morove They may COSts perv prohts to. mainrain staf which WIII OY sacling on -enployment as unen will claim Deople will pay bencht h means m in government spending elsewhere opportunity cost is incurred.

The effect of the tax will depend largely on the tax rise iS APD 50 by 8% 0 significant iny da tickers Ven are expensiv worrt this Seami effect deperd on the air tims pass th ether or the not the consumers tax onto is for business traveller inelastic as firms can safely pass it on and th ont decrease as consumers demand However, if PED nuch is elastic then the pass the tax on as d cannot and so will their revenu decrease firms will earn much regulation and trade unions of be able to not aut wages or face significant losses in they will reven increase. They may be able to fre ixely to be a time lag invol frm will los meantime a could ever be forced to leave the business

Results Plus Examiner Comments

Here 14 out of 14 marks were awarded. An explanation of APD as an indirect tax (1 mark) is supported with a relevant diagram that shows the tax incidence and tax area (4 marks). The effects of an increase in APD are considered such as higher costs and lower revenue and profits for airlines (2 marks), leading to a discussion on investment and employment considerations (1 mark). The full 8 KAA marks are easily achieved on the first page.

Evaluation comes in the form of discussing the size of increase in APD as a proportion of the price of airline tickets (2 marks) and whether demand is price elastic or inelastic (2 marks). The discussion then goes on to the importance of regulations and power of trade unions in the airline business which might even result in firms exiting the market (2 marks).



Offer three 'developed' evaluation points for questions comprising 14 marks.

Sz Frice , 5, P2P, BA : Consumer tox 12 PIPSCB : producer tox B Pi 13 D Quantity Øz Q.

An indirect tax is a tax levied on the apenditure of a good or service which have a significant extend asta when there is an increase in APP, the cost of aitiairlines will increase so the supply and will shift to left. Aidines may increase the price of ticket in order to make a constant profit. when the price increases the demand of oir travel may decrease due to the higher costs forsengers by to find substitute good. Havever, it depends on the proportion of total costs, if the APD only occupies a little port of total to casts of a tickets, passenger; an stil offer it, so it will not influence demand a lot. Also, it depends on the PED of cir travel, from figure 1, we can know air travel is price inelastic in terms of passiness and leisure travelers. So the demand of cir travel will remain in a similar level Maseover, there is no

Substitue goods for trovelers who are going to America and Austrailia where train service can not reach, they stru have a figh demand for air travel

ResultsPlus

Examiner Comments

Here 10 out of 14 marks were awarded. An explanation of APD as an indirect tax (1 mark) is supported with a relevant diagram depicting the tax incidence and tax area (4 marks). Some discussion is offered of the effects on airline costs, ticket prices and profits (2 marks).

Evaluation comes in the form of discussion on the APD as a proportion of total costs of tickets (1 mark) and the significance of price elasticity of demand - where the candidate refers to leisure and business travel being inelastic and then considers the consequences (2 marks).

Results Plus Examiner Tip

Offer three 'developed' evaluation points for questions comprising 14 marks.

Paper summary

Based on their performance on this paper, candidates are offered the following advice:

Section A: supported multiple choice

- Define accurately the key economic term(s) used in each question.
- Be prepared to annotate the diagrams presented in the questions.
- Be prepared to draw diagrams when relevant to the question and make sure these are properly labelled and explained in the text.
- Always refer to the information provided, for example, income elasticity of demand figures in Q5. This helps to credit responses with application marks.
- Revise thoroughly the topic of market failure, especially negative and positive externalities, for example, Q7 and Q8. This is an area where candidates often struggle to achieve high marks.
- Make sure 'value is added' to answers which use the rejection method. Do not simply state that a particular option is incorrect without explaining why this is the case.

Section B: data response

• Read the question instructions very carefully to make sure your answer remains relevant throughout. All too often candidate answers strayed from the questions set as revealed in Q9(d) on the consequences of fluctuating prices for cocoa producers.

It is also important to focus on the concepts mentioned in the question.

- Far too many candidates misread Q9(b) concerning price elasticity of supply and offered answers with regards to price elasticity of demand.
- Focus on developing economic analysis in the high mark base questions. Quite often candidates moved from definitions and a brief explanation of an economic issue straight into evaluation. This was evident in Q9(e) on a guaranteed minimum price scheme for cocoa and Q10(e) concerning the economic effects on air travel of an increase in the Air Passenger Duty. Economic analysis typically involves explaining the sequence of events leading up to a particular outcome.
- Ensure diagrams are accurately drawn and relevant to the question set. For example, in Q9(e) some candidates confused buffer stocks with a minimum price diagram. Similarly, in Q10(e) many candidates incorrectly shifted the demand curve inwards rather than the supply curve inwards to depict the effects of an indirect tax.

Grade Boundaries

Grade boundaries for this, and all other papers, can be found on the website on this link: http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx





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