

# Examiners' Report June 2022

**IAL Economics WEC11 01** 



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#### Introduction

The standard of work seen in this series for the Markets in Action unit has been impressive.

In Section A, the multiple choice section, candidates performed best on the question on cross elasticity, income elasticity and rational behaviour. Candidates struggled more on the questions on government failure and the forward market.

Section B, the short answer section, saw some mixed performance on questions. Question 7, the diagram saw most able to draw a PFF and to shift it out but many were unable to label the axis correctly. On question 8 many calculated the percentage-point change but when doing so they need to explicitly say that this is what it is. Question 11 identified that the indirect tax was £6 per kg and many failed to identify that this is a specific tax that required a parallel shift.

Section C, the data response section is based on information provided in the source booklet, in this paper on the market for copper and battery electric buses. Candidates could typically access at least one mark on 12(a) to show knowledge of external costs with stronger candidates able to offer precise definitions considering the negative impact on third parties. 12(b) needed candidates to explain the difference between renewable and non-renewable resources. Most offered accurate definitions of each, But many listed multiple examples of each which were both right and wrong and were not rewarded. 12(c) saw most candidates able to correctly draw the diagram to show demand increasing. They also accessed application marks by referring to the price change. On 12(d) it is important to explicitly identify the two likely effects. On 12(e) candidates looked at the introduction of a subsidy. Most could define it accurately and draw the diagram. Those able to achieve a higher score used their diagram in their analysis for example explicitly looking at the impact on price, quantity, the incidence, government spending and producer and consumer surplus. Better responses would also look explicitly at how consumers, producers and governments would be affected.

Section D, the essay section offered candidates the opportunity to choose between two questions. The section was more demanding and this is reflected in the mean scores on both questions. Candidates tended to attempt Question 13 and typically performed better on this question on maximum prices than on Question 14 on why education is underconsumed. In both cases the knowledge of the Economics was sound but candidates struggled in applying it to the context of the question. Another challenge was the level of analysis. Candidates often struggled to fully develop the chain of reasoning. Evaluative comments were often made and whilst some offered supporting evidence and linked to the context many were unable to offer a logical chain of reasoning. Diagrammatic analysis on the work from the stronger candidates was accurate and was integrated with their written analysis. They would not only draw the diagram accurately but talk about what they learnt from it in their written explanation. This enabled them to consistently achieve within the top level.

Most candidates were able to complete the paper in the time available. We did however see several unfinished or very brief essays suggesting that some candidates had not planned their time well. The performance on individual questions is considered in the next section of the report. The feedback on questions shows how questions were well answered and also how to improve further.

# **Question 7**

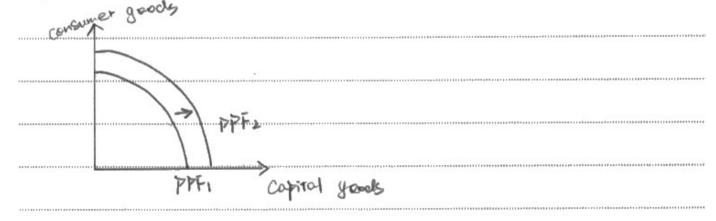
The stem explains that immigration into Germany was 1.59 million and that emigration from Germany was 1.19 million. This represents a net migration of 400 000, that is there are more people arriving than leaving Germany. This increases the productive potential and therefore causes the PPF to shift to the right. The vast majority could draw a PPF in the correct shape. Either a straight line or concave to the origin were accepted. Drawing this original curve gained a mark. Most could draw this PPF to the right. Only a few failed to draw an arrow. Some drew it pointing inwards which was incorrect. The most common reason marks were dropped was for mislabeling or not labeling the axis. Still some offer extensive written explanations to support but commonly the marks were already fully awarded with the diagram.

The candidate here has understood that with more immigrants than emigrants the population in Germany would increase. They appreciate that this will help increase productive potential in Germany and hence the PPF shifts outwards.

7 In 2018 there were 1.59 million immigrants arriving in Germany and 1.19 million emigrants leaving Germany.

Draw a diagram to illustrate the likely impact of this population change on Germany's production possibility frontier.

Include an arrow to show the direction of the shift.



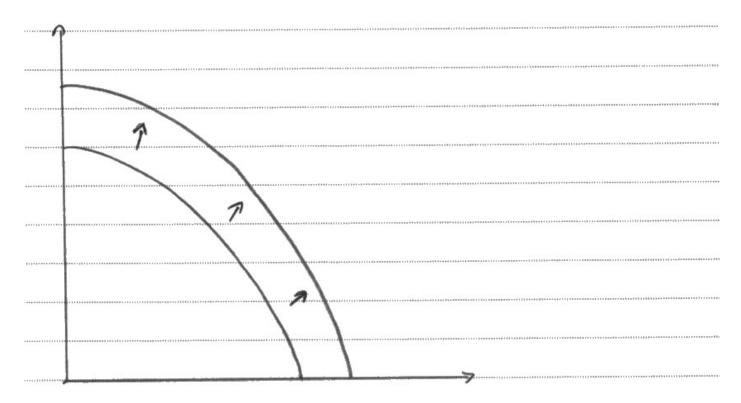


This candidate has accessed all available marks. The axis are both labelled accurately, in this case with consumer and capital goods, although alternatives were accepted. They have clearly labelled each PPF. As requested they have used an arrow to indicate the movement of the curves as requested.



When asked to draw, you do not need to support with a written explanation.

It was surprising how many diagrams had a PPF shape but the axis were mislabelled. This is a typical example where no curve or axis was labelled.





The shape of the original curve and new curve are accurate. As requested they have drawn the arrows to show the shift. This achieves two marks, the maximum available when no axis are labelled.



It was surprisingly common for candidates to have everything accurate other than the axis. A significant number labelled the axis price and quantity and again these could achieve no more than two marks.

## **Question 8**

The performance this series on this question was better than previous series where understanding of capital and consumer goods were tested. Consumer goods in previous series was less commonly awarded. Responses were typically linked to being consumed to gain satisfaction, utility and meeting wants and needs. Such responses gained the mark. It was also common to explain that capital goods are used to manufacture consumer goods. Whilst true they could also be used to manufacture capital goods. Data use explicitly referring to the percentage of GDP in ecah year or percentage point increases or decreases were rewarded.

The candidate has achieved full marks for two accurate definitions and two accurate pieces of data. However, the calculations of the change 4% and 0.1% are in fact percentage point changes and candidates are reminded that they are only rewarded here is because they explicitly write percentage point change.

Between 2018 and 2019 investment expenditure on capital goods in China fell from 47% of GDP to 43% of GDP. Over the same period, consumer expenditure increased from 38.7% of GDP to 38.8% of GDP.

With reference to China, explain the difference between 'capital goods' and 'consumer goods'.

capital goods are man made goods used to produce goods and services consumer goods are goods that instanty once sahfachen to a needs a want Bedween 2018 and 2019 investment of capital goods 47.1. of GOP to 43% of GOP. Decreased by 4%. goods to rise from 38.71. of hop to 38.81. expenditure increased by 0:1%.



The definition of capital goods achieves the first mark making reference to man made goods used to produce goods. The second mark is awarded for reference to consumer goods meaning satisfaction to needs and wants. The third mark is for the reference to data on capital goods – 47% to 43% and the final mark for reference to data on consumer goods – 38.7% to 38.8%.



Explcitly use the number given to you. Many candidates just said capital goods decreased and consumer goods increased but this did not gain marks.

## **Question 9**

A question that candidates were able to demonstrate their knowledge of public goods in terms of accurate definitions. Most could give the example from the case study to achieve the application mark. The better candidates could go on to analyse by considering what the free rider problem was and how this reduced the profits that the firms could generate and would lead to non-supply.

Most candidates could accurately define public goods. They could also make reference to the number of streetlights to gain the application mark. The analysis marks were less commonly achieved.

Between 2017 and 2022 the Singapore Government replaced 95 000 streetlights along its roads.

Explain one microeconomic reason why the Singapore Government provides streetlights.

ublic goods are goods that are non-excludable and rivalry. Street lights are considered as Public goods by cannot exclude people from benefiting the light However firms do not Supply Jublic goods Such as as due to the free rider problem. This is



The definition here accurately makes reference to non-excludability and non-rivalry. The application mark is awarded for reference to the 95 000 streetlights being provided. One of the two analysis marks is awarded for reference to not being able to exclude people and them free riding.



To achieve the final analysis mark candidates needed to make reference to how the free riding makes it difficult to ensure customers pay and therefore generating profits is difficult. Thus the government has to step in to ensure the streetlights are provided.

# **Question 10**

It is prefectly acceptable to provide the written defintion or formula for PES. Key though is to include quantity supplied rather than just saying quantity.

A large number included the calculation without calculating the values for the percentage change in both quantity supplied and price. Where they then had the final answer wrong they did not gain the marks for the intermediate steps.

However the common error of getting the formula the wrong way round was less common this series. A common error is to include a percentage sign at the end of the PES whch is wrong and only gains a maximum of 3 marks.

The candidate has used the correct formula. They then calculate the percentage change in quantity demanded accurately. The percentage change in price is also calculated accurately. These are put together to calculate the correct value of the PES.

10 The table shows the average world price of wheat per metric tonne and the quantity of wheat supplied globally in 2019 and 2020.

	Average wheat price per metric tonne	Quantity of wheat supplied, metric tonnes
2019	\$152.97	732 million
2020	\$176.48	777 million

Ceteris paribus, calculate the price elasticity of supply of wheat. Show your workings.

PES = -/ Dingty supplied ./ Din price

1. Dingly supplied = 777 - 732 X100

= 6.15 6.147% → 6.157.

1. Din price = 176.48 - 152.97 X100

= 15.869 = 15.37%

PES = 18 6.15

= 0.4



The examiner here saw the correct answer, 0.4, and was immediately able to award full marks without needing to check any other element.



Calculating the % change in quantity supplied and % change in price and including these in the responses was helpful.

Many did this and got the formula the wrong way round but could at least gain marks for each correct calculation. However many included the formulas without writing the percentage change down which meant they missed these intermediate steps.

## **Question 11**

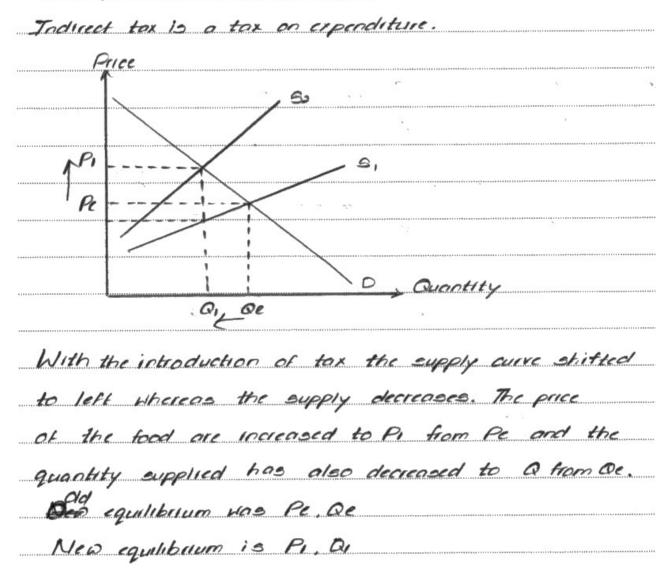
The stem refers to a specific tax added to salt. Most defined an indirect tax accurately. Most drew the supply curve shifting left. The best student drew this as a parallel shift. The majority gained a mark for correctly showing the price would rise and another for the quantity falling.

Here we see a common error. The tax referred to is £6 per kg making it a specific tax. The candidate here has correctly moved the supply curve to the left however this is not a parallel shift and is therefore ad valorem rather than specific.

11 Eating too much salt is associated with a higher risk of heart disease and stomach cancer. Every year 1.5 million deaths are attributed to excess salt in food. In the UK, the National Food Strategy recommended that an indirect tax of £6 per kg is introduced on salt added to food by manufacturers.

Explain the impact of the introduction of this indirect tax on the market for food products containing salt added by manufacturers.

Illustrate your answer with an appropriate diagram.





Correct definition gains one mark. Showing the increases in price and reduction in quantity gains the second and third mark.



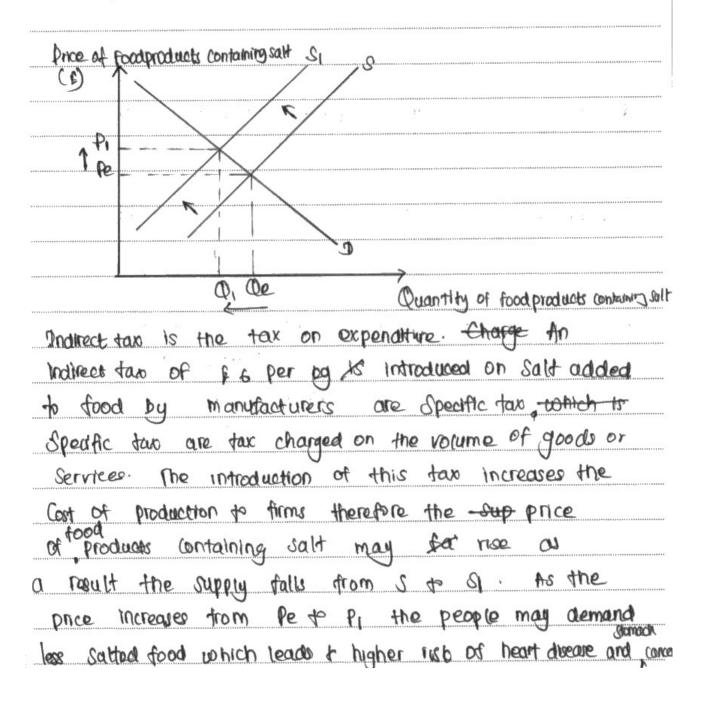
Be careful to read the details of the tax if it is a percentage tax then it is ad valorem and a pivot in the supply curve is fine. If it is a specific amount it is a specific tax and a parallel shift is needed.

The candidate has written 10 lines of writing and by the end of the first line had already achieved full marks with the diagram. It is important to note on these questions there is a relevant knowledge mark. One mark for illustrating a change on the diagram and two marks for showing the impact in this case on the price and quantity.

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Explain the impact of the introduction of this indirect tax on the market for food products containing salt added by manufacturers.

Illustrate your answer with an appropriate diagram.





Achieves full marks. The first mark is for the correct parallel shift of supply. The second mark is for the higher price and the third mark for the lower quantity. The first line of the written response defines indirect taxes to achieve the final mark.



In the diagrams it is easy to rush them during the exam and to not make it clear which direction they have shifted. Like this candidate it is useful to include arrows to show the shift of supply as well as price and quantity.

# Question 12 (a)

This question saw the vast majority gain at least a mark. Most could make reference to a third party for one mark. Where they referred to costs they gained no further mark but reference to negative impacts was credited. It was also common to gain full marks for reference to marginal social costs (MSC) being greater than marginal private costs (MPC)

This gains one mark for understanding the costs are on third parties. This sort of response only gained one mark as all it does is identify that there are costs which is in the keyword they need to define.

12 (a) Define the term 'external costs' (Extract B, line 3).

(2)

External costs are costs to a third party of ar



The inclusion of an example of an external cost from Extract B was commonly offered and rewarded. No example has been offered here.



Making reference to negative impacts would enable this learner to gain the additional mark. The question on external costs was commonly answered with MSC>MPC and this alone was enough to be awarded the full two marks.

12 (a) Define the term 'external costs' (Extract B, line 3).	(2)
External costs refer to Negative impacts on	
Diesel buses are used by large amounts of pe	5091e
thus reducing any quality. Childre Who go to shool	in



Vehicles are likely to develop diseases

The first mark is awarded for reference to the negative impact. The second mark is for reference to third parties. They would also gain a mark for examples of external costs taken form Extract B but full marks have already been achieved.



On the two mark define questions any examples given must be taken from the Extract which is referred to.

# Question 12 (b)

To achieve full marks on this question a definition of renewable resources and non-renewable resources is required. An accurate example of each taken from the data is needed to gain the final two marks.

It is not good enough to just say renewable resources renew and non-renewable resources do not renew.

(b) With reference to Figure 2, explain the difference between 'renewable resources' and 'non renewable resources'.

Renewable Resources are Resource which can be used

over and over again as it it Replinate by nature

eg - wind, other renewable resource, Natural part

NON renewable Pesources are not Replinesh by Nature which

emisting

can be one time use and Contexture in their generation

Soth as coal, oil.



The definition of renewable resources is accurate making reference to being able to use over and over again and to the fact it replenishes. Either taken alone would be enough to gain the mark. The definition of non renewable resources is accurate making reference to to not replenishing. The two examples for non-renewable given are both acceptable. The examples for renewable include accurately wind but natural gas is also incorrectly identified. This this candidate was awarded 3/4.



Commonly candidates would list two or three renewable and nonrenewable resources. The risk with this is that all need to be right so it would be best to list one which is accurate than three where one might be wrong.

# Question 12 (c)

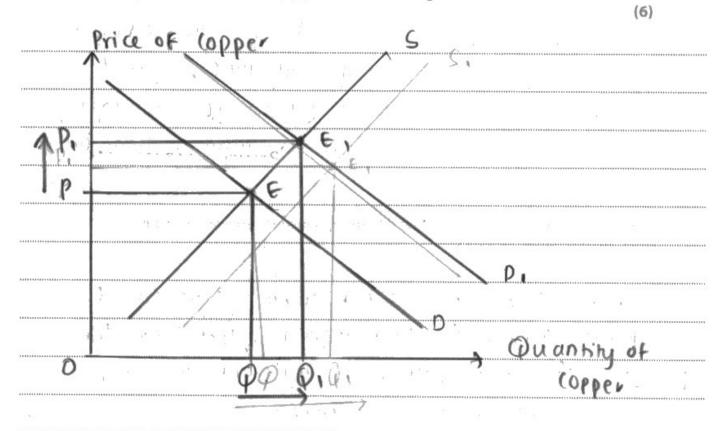
The 6 mark question typically requires a diagram and when two curves need shifting 4/6 marks are available for the diagram. In this case, where only one curve needed shifting only 3 marks were available for the diagram. In this instance the other application mark is for explicit reference to Figure 1.

The the first knowledge mark was for the correct initial supply, demand and equilibrium. The next mark is for the correct shift of demand to the right. The final mark for the diagram is the final equilibrium. Next they needed to make reference to Figure 1. The two analysis marks were for the reasons that demand for copper had increased.

Three marks are available for the diagram. Two marks for analysis which is the reasons and 1 mark for data reference to Figure 1.

(c) With reference to Figure 1 and Extract A, analyse two reasons why the world price of copper increased significantly between May and December 2020.

Illustrate your answer with a supply and demand diagram.



Between May and December 2020, the world Price of Copper increased significantly. The Speculation expected the 6 lobal rate of economic growth to recover from the global treatments and started to buy more copper. This increase in speculative demand would suift the Domand curve to the right, resculling in an increase in the price of copper.

Authornoone, Output of Electric vehicles approximately squad of copper in its production, lappa The Domand for Copper is thus derived from the domand

subsequently suift at the Demand curve , for resulting in equilibrium at E,, and an increase of the price of copper. These tactors cumulatively contributed towards an increase in price of copper from approximately \$5000 per metric tonne in April December 2020



The diagram achieved one mark for the original supply, demand and equilibrium. A second mark is awarded for shifting demand to the right. The final mark for the diagram is the new equilibrium with a higher price and quantity.

They then identify a series of reasons. Speculative demand following the global health crises. The increased demand for electric vehicles which require copper.

The final mark is awarded over the page where they identify the price changes.



The dates given are between May and December 2020 so these are the dates that the prices need taking from.

# Question 12 (d)

The question looked at the likely impact on plumbers of the increases in the price of copper pipes. Most could make the link to copper pipes being needed and could link this to costs and supply. There was a tendency on this question for one long chain of reasoning to be used. It is helpful if the candidates explicitly identify each effect in turn and offer the analysis of this. For evaluation there are two marks available and this could be achieved through either offering two evaluative comments or developing one.

The two application marks tended to be awarded for making reference to the changing costs of copper and to the fact plumbers prefer using copper. Most commonly candidates focused on the rising costs, leading to supply shifting left resulting in a higher price and lower quantity. Many looked at the likelihood that profits would fall as costs rise and firms are unable to hand this rise in costs on in terms of higher prices. The evaluation was less commonly offered, but those that did tended to focus on the proportion of total costs than copper pipes represented, the elasticity of demand and how that being inelastic will see little impact on revenues and whether plumbers had spare stock of copper pipes that could be used to avoid the higher costs.

(d) With reference to Extract A, examine two likely effects of an increase in the price of copper on plumbing firms that replace water pipes in customers' homes.

(8)

Ans: Supply of copper is the amount of copper producers · ale willing to supply at a given price over a perciod of time.

Most plumbers prefer to use copper pipes rate rather than plastic pipes. Therefore if due to an increase in price for w copper will result in higher cost of production for plumbing firms which means that their nevenue might fall which they could counter by laying off workers which could result in higher unemployment. Plumbing firems -could also switch to plastic pipe which will increase there utility & demand for copper might foll a bit. However, it depends whether consumers are willing to pox high prices for copper price as then plumbing firms can confinee using copper while maintaining their profit lovels. This is possible if average income level is righer in the economy.



This candidate has scored 6/8.

They achieve an application mark for making reference to most plumbers preferring copper pipes.

A knowledge mark is awarded for identifying that costs of production will rise. An analysis mark for they might lay off workers.

A knowledge mark for customers may switch to plastic pipes.

They gain an evaluation mark for making reference to it depending on whether the customers are willing to pay a higher price. This is developed with reference to them being able to increase the price and generate more profit.



It is useful on these questions to be explicit as you identify the two likely effects. For example 'The first likely effect is that... '

# Question 12 (e)

The question was generally well answered. Most could define accurately and include a relevant diagram. It was pleasing that so many were able to integrate the diagram in their analysis talking about specific areas from the diagram. Specific issues related to BEBs were included particularly about their advantages and disadvantages compared to diesel buses. The latter often coming up in evaluation. It was pleasing that evaluation was often applied. So not just talking about magnitude but relating to the size of the subsidy. A number for example calculated the number of BEBs this could fund to consider the impact. Another common argument was the concerns over the range and how diesel buses were superior.

Most learners could talk theoretically about the impact of a subsidy. Those able to move the response to Level 3 were often able to talk in detail about the impact on the market for battery electric buses. A key focus was on the impact of reducing the externalities associated with diesel buses.

(e) With reference to Extract B and your own knowledge, discuss the possible effects of a subsidy paid to manufacturers of battery electric buses (BEBs).

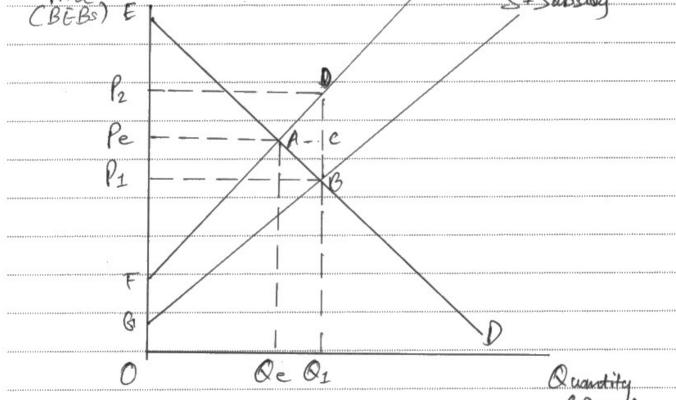
Illustrate your answer with an appropriate diagram.

A subsidy is a form of government grant whereby the given to firms in order to lower their costs of production and encourage the supply of particular goods and services in the market.

As per extract B, the US Government allocated
\$ 979 million of subsidies to increase the number
of bottery electric buses (BEBs).

Price
(BEBS) E

(BEBS)



Due to the subsidy given to BEB namufacturers, the supply curve shifted rightwards as costs of production decreased and it is a factor influencing supply, so the supply capability of firms producing BEBS increased. The price decreased from Pe - P1 and BD increased from De - O1 - As quantity demanded increased for BEBs, the demand for labour is likely to increase as well because labour is a derived demand, so more workers are likely to have a job in this industry. Old consumer surplus was Pe AE, nue consumer surplus is PIBE. Consumer surplus has increased. Old producer semplus was PeAF, new producer surplus is P1 BG. Producer surplus has increased. Old producer revenue was PeAQeO, new producer venenue is PeDQ10. Producer revenue was increased, encouraging more firms to enter the market and further increase supply of BEBS, further reducing negative externalities, likely Producer incidence is P2 Pe CD. Consumer invidence is PeP1 ZBC. The section 12 P1BD expresses government expenditure

However, we must consider the magnitude of the subsidies may be considered substantial and may take a toll on the government's budget. Also, the government may have also used this exbetantial amount on other key sectors (e.g. health,

Also, in order to first the electric batteries of BEBs, charging stations may need to be made, and these infrastructural sharper may need further government spending.



The definition is accurate, this is linked to lower costs of production and encouraging supply. The data is used to identify the size of the subsidy.

The diagram has an initial equilibrium, supply is shifted in the right direction. The new equilibrium price and quantity is identified. The area of the subsidy is also marked on the diagram. Alone without supporting analysis the diagram would achieve level 2.

The work is elevated to level 3 in the analysis that follows. They have identified a number of correct areas for example consumer surplus, producer incidence and government expenditure.

The evaluation is offered and links to the magnitude of the subsidy and a hint of opportunity costs. They also talk about the need for charging stations adding to the costs. The evaluation is level 2.

Overall for Knowledge, Application and Analysis they are awarded 7/8 and for evaluation they achieved 3/6. Overall the candidate achieves 10/14 marks.

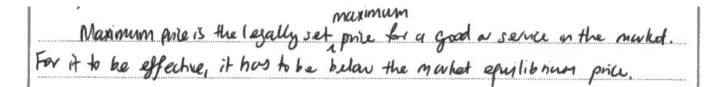


When asked to illustrate your answer with a diagram it is important to include a relevant diagram. Those that only focus the analysis of this on the impact on price and quantity tended to achieve Level 2 and those that looked at other areas such as consumer or producer surplus, producer and consumer incidence, size of the subsidy were more likely to access Level 3.

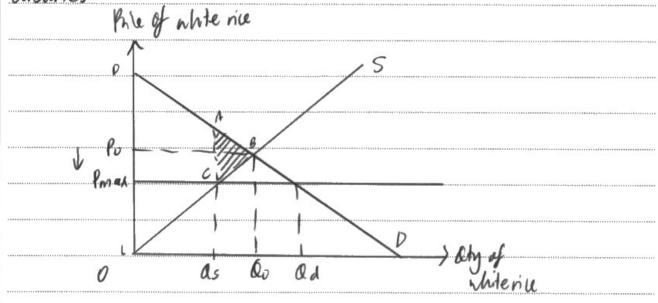
## **Question 13**

The first of the two essays was more popular than the second essay. Many candidates offered a diagram that supported their response often enabling them to access higher scores. The definition of maximum price was normally accurate, diagrams offered were accurate and analysis looked at the impact on economic agents. Evaluation often focused on the problems associated with a maximum price.

Most candidates looked at winners and losers from the introduction of a maximum price. This approach identified those that could access the rice benefiting from a lower price and more consumer surplus. They contrasted this with the consumers that will not access the product and would lose out. Similarly they looked at the threat to profit and survival of the producers of white rice. In looking at firms leaving the market they often looked at them substituting to more profitable crops.



lanka nill firstly neduce maket prie (Po > Promax) thus ensuing against for consumes:



However, a situation of shortage asod will be weated at Ponax as

Od70s. This creates a welfare loss of ABC. Brodu as scuply will be

reduced from PoBO to Ponax CO while consumer surplus mill museuse from

DBPo to PAC Ponax. Thus, consumes from OOs will enjoy pree reduction (Po>Ponax)

and inverse ed surplus. However, consumer from Os Od will lose a count to

and multiply

White nice due to produce unmilligness to supply from loss of profit

revenue (PoBOO) > Ponax COSO). This contradicts gams from emity. A

black marked might even from which is an unregulated market that charges

exorbitant pries above Pony. Consumes, Byry from it an nill lose quanter on prie and quality competitiveness and causay a policy failure. Thus, government regulation is recessary to ensure that policy is enconful through punishment To evaluate, white rice is a necessity in Asian Countries Die Sir Lanka so answing affordability PED metastic (1PED)<1). This nuans there is high incertive for black market seller to operate as high development mark-ups in prices will asky result in less than paparionate of the quantity denanded, & bery very profitable. The magnitude of shortage will Nio depend on new extent of decrease from Po to Poncex. The great lower Praxis, the greater the shortage and hence more likely net welfare loss as OsOd > Igains in OOs. More significantly howers, as PED melastic a decrease in pine of rice will only result in as a less than proportionate mease in quantity demanded, minimizing due to other factors carry this pice invespersmenes like habit bias, minimismy intended gains for consumes.

Another possible impact on the market will be the huge reduction in produce surphis (PoBO -> Proces CO), This might mentione produces of whoke rise to leave the industry for more proftable ventues in the long-non of the or diversify mb other possible substitutes that will not have such pace compols. like brown rice or rice noodles. This will they lead to a decrease on supply of white ine in the long-run, which morsess will are mureuse shortage problems, novsening equity and and problems of the black market. As As unintended by the government, this leads to government failure. The government night they next the government might resert to interestion buying to reduce welfore loss to but this is not sustainable framially as

government known that Sn Laska, bey a developy country wan-developed country is unlikely to have, thus motors leading to a crisis and policy failing like burna in the 2000s. To evaluate hower, this and depend on the times divasous of this policy. I long term measure will adjust produce expectation and behavior and lead to the previously mentioned leaving of market. Corruption is also campant in Sn Lanka, and to deal with price cuts (Pm), producer unight even compromise the quality of the rice though excessive use of dway pestides that might boost gields and thest thus cut cost of product out the expense of consumes and greater society as it muss great extend costs of pollution.

Thus, to in the final analysis, maximum pice importion for sin Larky in the white nie moviet is likely to lead to government faithe grean the effective hose costs reprived for policy. The government also has to have a rect of paration for it to be effective and healthy finances to sustain regulative to prevent weafone (one through black market or voraption. This, it might be more advisable to use sess distortive measures as the market such as great term subsidies that are less direct and nile mentione production and movedum and cachine a similar effect.



This is an excellent response.

The diagram is accurately drawn. They then integrate this into the analysis referring to the changes in producer and consumer surplus for example. They consider the emergence of a unregulated market in terms of a government failure.

The evaluation offered is strong. It considers the inelasticity of demand and the distance between the minimum price and the equilibrium price. Government failures is also considered. Possible impacts on quality are also discussed.

The candidate achieves 11/12 for knowledge, application and analysis and 7/8 for evaluation.

Scores 18/20.



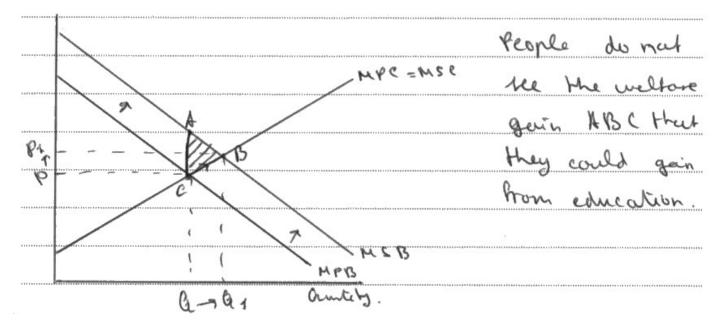
When including diagrams it is important that in the written analysis candidates explain what it shows in terms of the impact on economic agents such as consumers, producers and government.

# **Question 14**

The question explored why education might be under consumed. There were a wide range of responses but typically focused around information failure, positive externalities, lack of income, poor quality education and the opportunity to earn more from working. This was fairly effective but on this question candidates struggled to offer evaluation. Many considered how the government could correct the failure although this was not really focused on the question. The weaker evaluation resulted in weaker performance on this question.

For many this question focused on generating a list of reasons without a detailed chain of reasoning as to why the issue caused the under consumption. This essay does have a small number of brief points but overall offers detail in the analysis and the evaluation is focused on answering the question.

treational consumers one corrumers that do not marrier their On reason why education might he unerconumed is the fact that people do nut see the external benetited and their private herelita from education. This could be coused by an information gop where the government did rat provide the warey with enough intermation to understand that they goin provate heretity like getting a good job having a high wage, increasing the standard of living. They also do hot consider the external benefits of education as I leads to having better hockors and hatrer healthcare, hetter lawyers, leachers that would develop the earnony and the country more



Mother reason why education might be so under consumed would be because of the herding effect. It the person is in a community when his friends or parents have to attended only form of education Hen they will hat he eager to purque a luture on Education and Har is why only 20010 of 25-34 year-ald people had unversity education in Haly. Wahitual behaviour could also be a bactor of people may not be used to studying as this did not tudy at school to they would not be able to study at the unwersty and thus wall not reage a degrees. hertia could also be a factor as some people would sut he too losy to put in the effort to borstly apply to the university and Muly and graduate I factor that could also intuence the platistics would be the affordatilety of the higher education If the states after free ununty education it may increase this perceloge like South Korea with 30% and the Ust with 50% the affordancity also depends on the wealth of the household, it there the househald cannot attord Hu expenses of Mudying of the amenty like the acannodaton, busks, materials or even the unversity he then more would not be able to get a

unerty regree and education will be under contained for some household it would be more problem ble for Hem to get a job and next get a university degree as they may be in financial problems and in need for a source of income patter than yesting on university.

On the other hand, it is hard to determine the exact impact and wourd benetit from a unversity degree and purple that do not have one, as in some vegions there have to be people without degrees that would take jobs as contrators, tishing, truk drivers and other essential juby that don't vegure a unversity. It is also hand to determine whether the private benetif it a uniently degree would be greater than the court of it, or the unwentry degree may cast a lot or money and then a graduate may not find a job which will result in a big cased as he well have the dent loom to pay but having no job offers. The undercontamytion also does not depend only on the consumer, there could be other backony like a way in the country that would itop the attending of school, for changle what is happening royht now in Ukraine where nucleion of underty have flopped Heir education or the factor could be even the lack of schools or fearhers which is a market failure.

Taking into consideration all the things raid abovo, it has been shown that education mught be under consumed because the consumers one next rational and they do next see the hereby of the education, both produce and esternal, ove in therese by the other people or connat otherd educations Unless, they do an act rational in their own intère or they can get a higher proute benetit from a job without a degree rather than ottending the unwersty as they devide that the job would be were problebble or the dearion of attending the unversity does had is not the consumer's bout rather It other external factors; in all other cores the reason of underconjunction is the fact that continues act inutional



Another excellent essay.

They start with an accurate definition of irrational behaviour. They link external benefits with information failure and how the government could have done better in filling the gap.

The external benefits diagram has been drawn accurately with the correct welfare gain triangle drawn which is integrated into the analysis.

The candidate talks about the herding effect linked to how parents can influence their children not to invest in education. Habitual behaviour and inertia are also looked at although the development of these is briefer.

Affordability is considered as is the fact working can be rewarding.

Evaluation is offered. Firstly that it is difficult to value the benefits and costs of education. Other factors including conflict impacting education levels are considered as an alternative. They offer a conclusion that explores whether it is rational or irrational.

Overall the candidate achieves 17/20.



Many candidates explored a wide range of reasons for the under consumption but often did not discuss each in enough detail. It would be better to look at fewer reasons in more detail to be able to get the level of analysis.

## **Paper Summary**

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

## Section A: Multiple Choice

- The forward market topic needs additional work as few could select the relevant example
- The government failure question saw many select a market failure. Offering examples of each and getting them to explain why each is market failure or government failure would be a useful exercise.

#### Section B: Short Answer

- When asked to a draw a diagram all marks can be achieved through the diagram and no written explanation is required. The majority of candidates supported their response with a written explanation when in fact the diagram had achieved full marks.
- Question 8 saw many calculate the percentage point change in capital and consumer goods but this needed to be explicit that this is a percentage-point change.
- Question 11 saw a £6 per kg tax introduced on salt. May did not understand that this is specific tax and required a parallel shift in supply.

## Section C: Data Response

- On 12(b) when giving examples it is important that these are taken from the context
- When one shift is needed on the diagram, like in 12(c) explicit use of data is also required.
- On 12 (e) where a diagram is requested it is important to offer a relevant diagram to be able to access Level 3 for knowledge, application and analysis.

#### Section D: Essay

- Define the key terms relevant to the question.
- Diagrams should be drawn where helpful and many candidates successfully incorporated a maximum price diagram.
- Candidates that did best were able to apply to the specific question and use relevant examples that fitted with why people under consumed education or the impact on the rice market.

# **Grade boundaries**

Grade boundaries for this, and all other papers, can be found on the website on this link:

https://qualifications.pearson.com/en/support/support-topics/results-certification/gradeboundaries.html

