

INTERNATIONAL ADVANCED LEVEL

ECONOMICS Exemplars with examiner commentaries Unit 1 (WEC11)

Pearson Edexcel International Advanced Subsidiary in Economics (XEC11) Pearson Edexcel International Advanced Level in Economics (YEC11)

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Introduction

1.1 About this booklet

This booklet has been produced to support teachers delivering the Pearson Edexcel International Advanced Level in Economics specification. The Unit 1 exemplar materials will enable teachers to guide their students in the application of knowledge and skills required to successfully complete this course. The booklet looks at questions 7 to 14 from the June 2019 examination series, showing real candidate responses to questions and how examiners have applied the mark schemes to demonstrate how student responses should be marked.

1.2 How to use this booklet

Each item covered in this booklet contains:

- Question
- Mark scheme
- Exemplar responses for the selected question

• Exemplification of the marker grading decision based on the mark scheme, accompanied by examiner commentary including the rationale for the decision and guidance on how the answer can be improved to earn more marks.

The exemplification highlights the achievement of the assessment objectives at the high and mid level of candidate responses.

Centres should utilise the commentaries on the exemplification of marker decisions to support their internal assessment of students and embed examination skills into the delivery of the specification.

1.3 Further support

A range of materials is available from the Pearson qualifications website to support you in planning and delivering this specification.

Centres may find it beneficial to review this document in conjunction with the Examiner's Report and other assessment and support materials available on the <u>Pearson Qualifications website.</u>

1.4 Assessment objectives

This document references the assessment objectives, which are as follows:

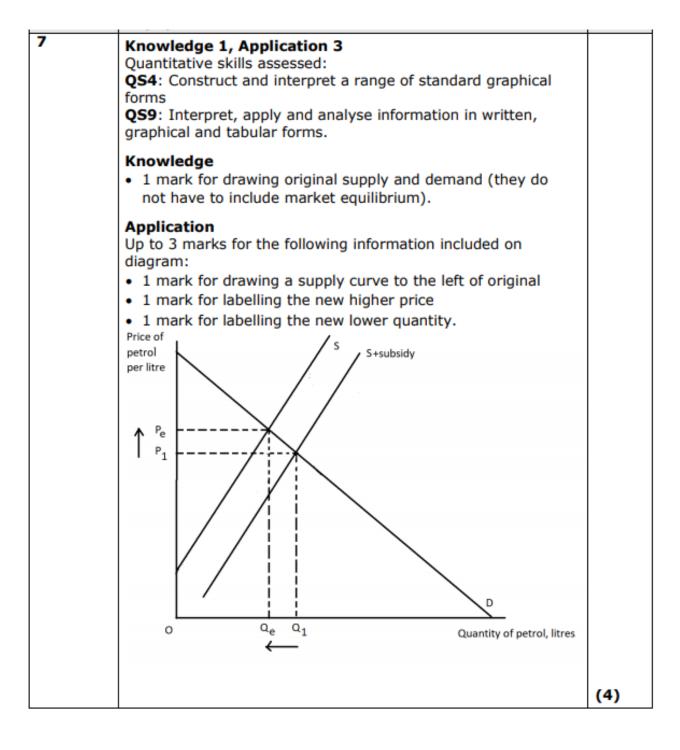
		% in IAS	% in IA 2	% in IA L
AO1	Demonstrate knowledge of terms, concepts, theories and models to show an understanding of the behaviour of economic agents	27. 5	18. 8	23. 1
AO2	Apply knowledge and understanding to various economic contexts	30	22. 5	26. 3
AO3	Analyse issues and evidence, showing an understanding of their impact on economic agents	22. 5	28. 8	25. 6
AO4	Evaluate economic arguments and use appropriate evidence to support informed judgements	20	30	25

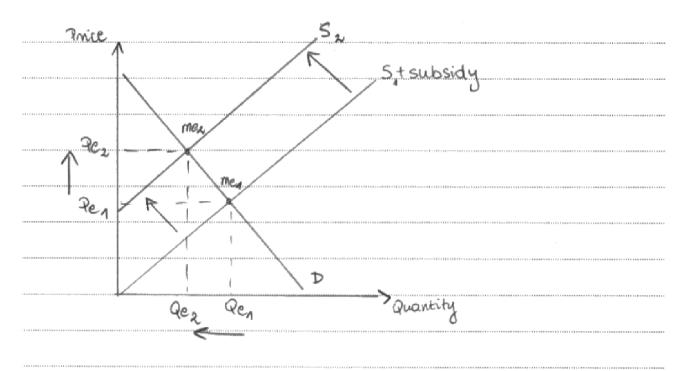
NB: Percentages may not add up to 100 due to rounding.

Question 7

7 In 2016 the Nigerian Government removed the subsidy on petrol.

Draw a diagram to illustrate the impact of the removal of the subsidy on the equilibrium price and quantity of petrol.





Examiner's comments:

This response was given 4 marks.

The candidate has correctly drawn the original supply and demand. They did not need to mark on the original equilibrium to gain the mark but it is sensible to have drawn the original equilibrium.

They gain the first application mark for correctly drawing the new supply curve to the left. The second mark is awarded for clearly identifying the new higher equilibrium price at Pe₂ and the final mark for the new lower quantity at Qe₂.

They have helpfully included the arrows to show quantity falling and price rising and also the direction of the shift in supply. They have also annotated both the original supply curve, quantity and price with the same subscript. Likewise, they have correctly annotated the new supply curve, quantity and price with a different subscript.

This candidate has also focused on the question, they were asked to draw a diagram and that is all they have done. Many included a commentary with their response explaining what was happening, which gained no additional credit as the question did not ask for an explanation.

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decr		Qz	1))	

Examiner's comments:

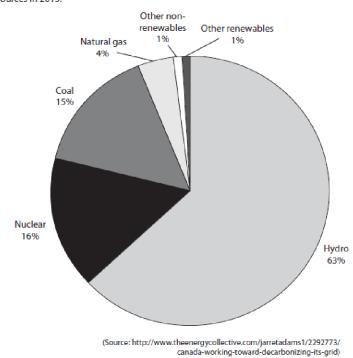
This response was given 1 mark.

The candidate gains the knowledge mark for the original supply and demand.

Unfortunately, they have shifted the supply curve to the right and the price is lower and quantity higher. All three are wrong and no application marks are given.

To improve, candidates need to remember that the imposition or increasing of a subsidy will cause supply to shift right. By removing the subsidy, the supply curve will shift to the left.

Question 8



8 The chart shows how Canada's total electricity supply was generated from different resources in 2015.

With reference to Canada's electricity generation, explain the difference between 'renewable resources' and 'non-renewable resources'.

8	Knowledge 2, Application 2	
	Knowledge	
	1 mark for defining 'renewable resources'	
	 An economic resource which is not depleted by use/ replenishes after use/ can be used continuously/ be used again and again (1). 	
	1 mark for defining 'non-renewable resources'	
	 An economic resource that cannot be replaced/ replenished once used/ resource that is finite (1). 	
	Application	
	1 mark for applying to the Canada's energy generation for a renewable resource, e.g.:	
	• Hydro (1)	
	 Other renewables could include solar/ wind (1) 	
	1 mark for applying to the Canada's energy generation for a non-renewable resource, e.g.:	
	Coal/ Natural gas (1).	
	 Most electricity generated is renewable (1) 	(4)

Kenewable vesources are those that are no be reused. For example. an can 13 wo duce water 1 YE SEL ready a re YP XC.es ave 20 (anada's non - rewa 1280

Examiner's comments:

This response was given 4 marks.

The candidate achieves the knowledge mark for defining renewable resources by explaining that they can be reused. They then achieve an application mark for identifying an example from the pie chart, i.e. hydroelectricity. The explanation as to why it is renewable did not gain any additional credit.

The second knowledge mark is achieved for defining non-renewable resources as those that cannot be reused. The second application mark is achieved by giving coal as the example for non-renewable. Again, the attempt to explain why it is non-renewable gains no additional credit.

Renewable resources are rejources could be used more than I time. Non Le newab resources are used - once raph we could 6

Examiner's comments:

This response was given 3 marks.

The knowledge mark for defining renewable resources is achieved by making reference to the ability to use it more than once. The second knowledge mark is achieved by making reference to the ability to use non-renewable resources only once.

The candidate has then made the observation that most resources come from renewable resources, which is the final bullet point in the mark scheme.

To improve, candidates need to give specific examples of both the resources they are asked to explain the difference between.

Question 9

9 Singapore's economy is highly dependent on trade with the rest of the world. In 2017, Singapore's exports were 173.3% of its GDP.

Explain one role of financial markets in such an economy.

 Knowledge 1, Application 1, Analysis 2 Knowledge mark for identifying one role of financial markets, e.g.: to make funds available to businesses and individuals/ to facilitate the exchange of goods and services/ trade to provide forward markets in commodities and currencies/ exchange of currencies to provide a market for equities/ to facilitate saving (1). Or 1 mark for defining financial market The bringing together of buyers and sellers to exchange financial products Analysis Up to 2 marks for explaining how the role supports economic transactions e.g.: So that firms can borrow money (1) to be able to buy capital goods from abroad (1). When consumers wish to purchase foreign goods they can pay using debit and credit cards (1) and banks will transfer money electronically to the foreign firm they buy from (1). With commodity prices being volatile this helps create stability in terms of having a predictable price (1) which can be traded on at a future date when the goods are imported (1). Enables firms to sell shares (1) to raise money to fund expansion to sell more goods to foreign customers (1). So that consumers can accumulate money (1) to be able to spend on goods from abroad (1). So that consumers can accumulate money (1) to be able to sell more products (1). Application Up to 1 mark for applying to how this facilitates more trade in goods and services, e.g.: This will enable firms to increase output to be able to sell more products (1). As buying and selling goods becomes easier the volume of international trade is likely to increase (1). Contracts can be agreed with certainty ensuring more confidence and therefore more goods and services likely to be traded internationally (1). By firms being able to grow they will be able to increase the quantity of goods they buy from abro			
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 This helps exports to reach 173.3% of its GDP (1). 		purchases for example of cars from abroad (1).	
 Singapore depends on international trade (1). 		 Singapore depends on international trade (1). 	

role of the brancial markets is to factitate the exchange in goods and survices Such as, banks provide money such as credit cards or debrit cards, or economy to provide and cons m print more monu ability to exchange & money for wth goods. customers Singapore's uports were 173.3% of 2017, GDP 54 partness from other countries provide Afric: sts Avens pay for goods that are outside with 6 credit cards that transactions can be such carried Singerpore. online from outside ow

Examiner's comments:

This response was given 4 marks.

The candidate gains the mark available for knowledge by stating that financial markets facilitate the exchange of goods and services. They develop this to access analysis marks by explaining how the role supports economic transactions. The candidate does this by making reference to forms of money such as credit cards and debit cards.

They gain an application mark by making reference to the exports being 173.3% of GDP. They then gain a mark for analysis as they explain that they can use credit cards to buy goods online from outside Singapore.

Financial markets provide markets for goods and services in this case they will allow transactions to be made between the 2 countries.

provide a cuirency eign investors. EXPORTS Were P3.3% of

Examiner's comments:

This response was given 2 marks.

The candidate gains a mark for knowledge by identifying that financial markets allow transactions to be made. They gain an application mark for referring to the 173.3% of Singapore's GDP.

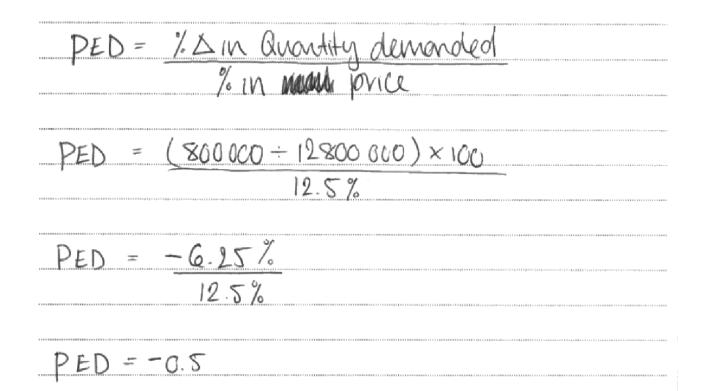
The candidate has not accessed any analysis marks. The candidate needs to make reference as to how consumers can make transactions; for example, by being able to pay using debit and credit cards to purchase goods or services from Singapore. Further, they needed to explain how banks can support with this; for example, electronically transferring funds from overseas firms and consumers to Singapore's firms before goods or services are then sent.

Question 10

10 In September 2017, Centrica increased the price of gas and electricity by 12.5%. Before the price rise Centrica had 12 800 000 customers but this fell by 800 000 after the price increase.

Ceteris paribus, calculate the price elasticity of demand for gas and electricity from Centrica. Show your workings.

10	 Knowledge 1, Application 3 Quantitative skills assessed: QS8: Make and interpret calculations of elasticity. Knowledge 1 mark for the formula for price elasticity of demand: % change in quantity demanded % change in price % change in price OR 1 mark for identifying that the good is relatively price inelastic. The demand for Centrica's gas and electricity is price inelastic because the percentage change in price is 	
	<pre>greater than the percentage change in quantity demanded. Application Up to 3 marks for calculations: Change in quantity ÷ original quantity -800 000 ÷ 12 800 000 x 100= -6.25% (1) % Change in quantity ÷ % change in price -6.25%/12.5% (1) = -0.5 (1) NB: if correct answer (-0.5) is given, award full marks regardless of working</pre>	(4)



Examiner's comments:

This response was given 4 marks.

The correct answer is given at -0.5 so immediately this candidate is awarded the full 4 marks available.

These 4 marks would have been allocated in the following way: the formula is correct for the knowledge mark, the change in quantity is calculated at -6.25% for one application mark, for putting the numbers correctly into the formula they gain a further application mark, and the final application mark is achieved for the correct answer.

Another point to note is that it is important to ensure that price elasticity of demand is a negative number. Many candidates put it as +0.5 when PED is a negative number.

Demanded m price IN 13.75 000 elastic tricity close hears necess Majority

Examiner's comments:

This response was given 1 mark.

The answer given is incorrect so we check the response to see if any marks can be awarded to this candidate. The formula is offered and achieves the knowledge mark. To calculate the percentage change in quantity, the candidate has made an error in that they have calculated as if the output has fallen from 12 800 000 to 800 000 when in fact it has fallen from 12 800 000 to 12 000 000. This was a common error. They then fail to access any further marks.

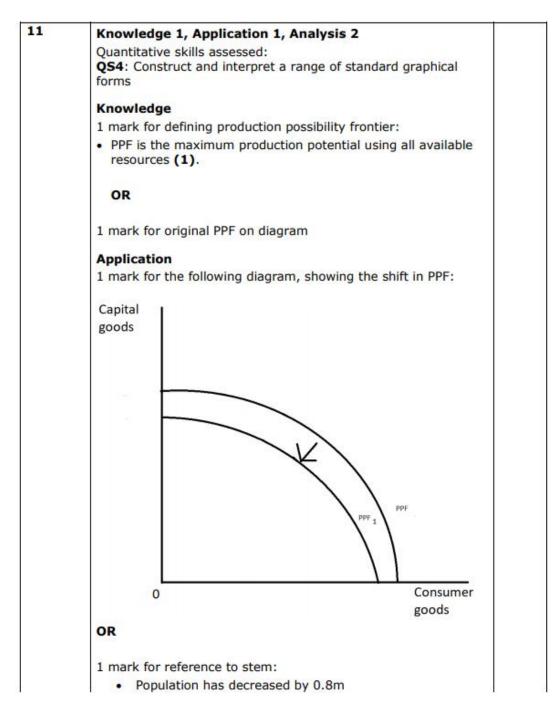
When answering the question, it is important that candidates pay close attention to whether it is a change 'by' or a change 'to'. Confusing this made a big difference to their answers and marks awarded.

Question 11

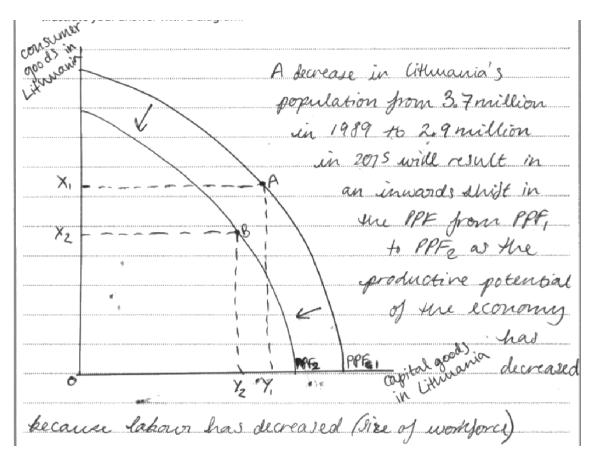
11 Lithuania's population decreased from 3.7 million in 1989 to 2.9 million in 2015.

Ceteris paribus, explain the likely impact of this change in population on Lithuania's production possibility frontier (PPF).

Illustrate your answer with a diagram.



4)

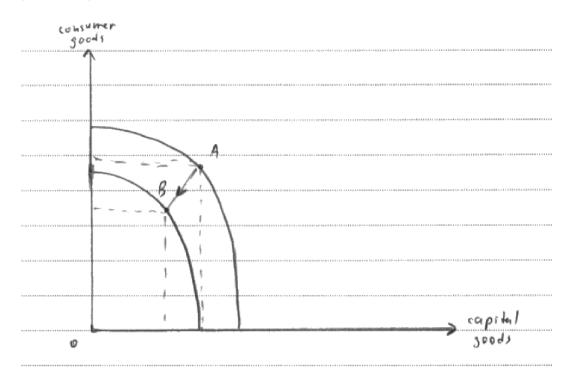


Examiner's comments:

This response was given 4 marks.

The candidate achieves the knowledge mark for the original PPF. They gain an application mark for shifting the PPF inwards. The arrow pointing inwards and reference to PPF_1 and PPF_2 are helpful in identifying the direction of the shift.

They make reference to the productive potential increasing for the first analysis mark and then making the link to the decrease in labour (size of workforce), which gains the final mark.



Examiner's comments:

This response was given 2 marks.

The candidate achieves the knowledge mark for the original PPF. They gain an application mark for shifting the PPF inwards. The arrow pointing inwards and reference to points A and B are helpful in identifying the direction of travel.

The candidate needs to attempt the analysis marks. They need to explain the impact of the fall in population. For example, referring to the population decline as causing a reduction in the size of the labour force would gain a mark. Going on to link this to how production potential would fall would gain the final mark.

Question 12(a)

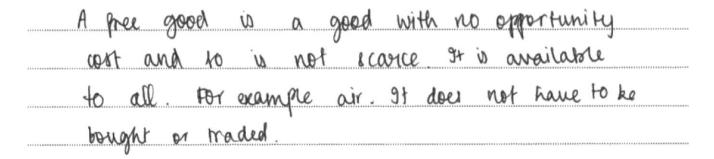
12 (a) Define the term 'free good' (Extract A, line 7).

(2)

Mark scheme

12 (a)	Knowledge 2	
	Up to 2 marks for defining a 'free good', e.g.:	
	 A free good is a good with zero opportunity cost (1) This means it can be consumed in as much quantity as required without reducing the availability to others (1). 	
	 Product is so abundant (1) that it is impossible for a price to be charged (1). 	
	 Abundant in supply (1) with no opportunity cost (1). 	
	 A good that is not scarce (1) and does not have to be bought or traded (1). 	
		(2)

Exemplar response A



Examiner's comments:

This response was given 2 marks.

In line with the mark scheme, any two points can be combined to access the marks. The candidate identifies that there is no opportunity cost for the first mark. The second mark is achieved for identifying that the goods are not scarce. The full marks are achieved but another knowledge mark would have been achieved for reference to it being available to all.

A pree good is aburdant in supply, and has no opportunity cost. For example "wild grass".

Examiner's comments:

This response was given 2 marks.

This is another response that achieves the full marks. The candidate has achieved this in a concise way: first mark for 'abundant' and second mark for 'no opportunity cost'.

Question 12(b)

Between 2008 and 2016 weekly household real income increased by 2.7% in Australia.

(b) With reference to Figure 1, explain the likely change in quantity demanded of lamb between 2008 and 2016.

(4)

12 (b)	Knowledge 2 Application 2	
	Knowledge	
	Up to 2 marks for definitions of income elasticity of demand (YED) and inferior good:	
	 The responsiveness of quantity demanded to a change in income. 	
	OR	
	Formula for YED:	
	% change in quantity demanded	
	% change in income (1)	
	 Inferior good has an income elasticity which is negative (1). 	
	Application	
	1 mark for reference to the direction of change, e.g.:	
	 The negative YED means that a rise in income will lead to a fall in quantity demanded /Quantity demanded will fall as income increases (1) 	
	1 mark for reference to the actual change, e.g.:	
	 The YED is less than 1 so quantity change will be less than proportional/ less than 2.7%/ 0.39% change (1) 	
	NB = - (1) 0.39% (1)	(4)

TED & is the responsiveness of Avantity demand to the change in income. According to Figure one. the D= IED of Lamb is -0.46, atoilt isan inferior good, which means the higher income will cause a lower demand. In this case, when the real income increased by 2.7%, $\frac{7 \triangle Od}{2.7\%} = -0.146$ $\frac{7 \triangle Od}{2.7\%} = -\frac{1}{2.7\%} = -\frac{1}{2.7\%} = -\frac{1}{2.7\%}$ The Brownitty demanded will feel by about $\frac{1}{2.94}$ To

Examiner's comments:

This response was given 4 marks.

The first knowledge mark is achieved by defining income elasticity of demand. The next knowledge mark is achieved for identifying that the -0.146 makes it an inferior good. The candidate gains an application mark for identifying that higher income would lead to lower demand. They then calculate the change as -0.39%. By having the negative sign, they would gain 1 mark but this is already achieved by the mark awarded earlier. The correct value gains the final mark.

income elasticity is the measure of responsiones of demand
for a good to a Change in memory when YED is
less than 1 it's melastic. When more than 1 it's elastic, when negitive it's
an inferior good and demand for it decreme as income your up. when
its positive is a porner good and demand goes up when income goes
$\frac{1}{2} \frac{1}{2} \frac{1}$
The YED for Lamb is -0.146 meaning when income goes
up demand will go down. Since Real gop has gon up
Redemond will go down for Lamb.

Examiner's comments:

This response was given 3 marks.

The candidate both defines income elasticity of demand and includes the formula and one knowledge mark is awarded for this. The second knowledge mark is awarded for identifying that inferior good is negative. They then go on to define 'elastic' and 'inelastic' and 'normal goods' and so all knowledge marks are achieved.

The candidate gains an application mark for identifying that when income rises, demand will go down.

To achieve the final mark, the candidate needed to make reference to the actual change that is either the percentage change or reference to the inelasticity, and the fact that the change in demand would be less than proportional to the change in income.

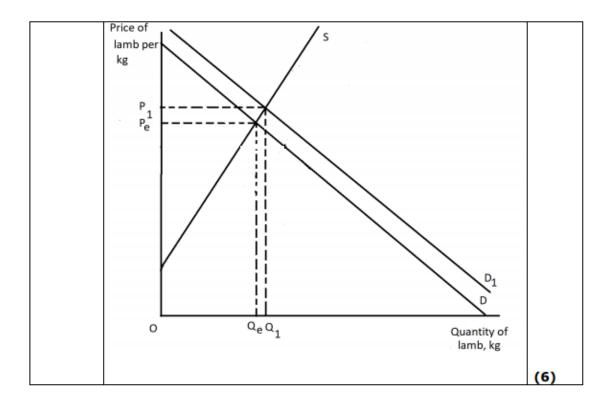
Question 12(c)

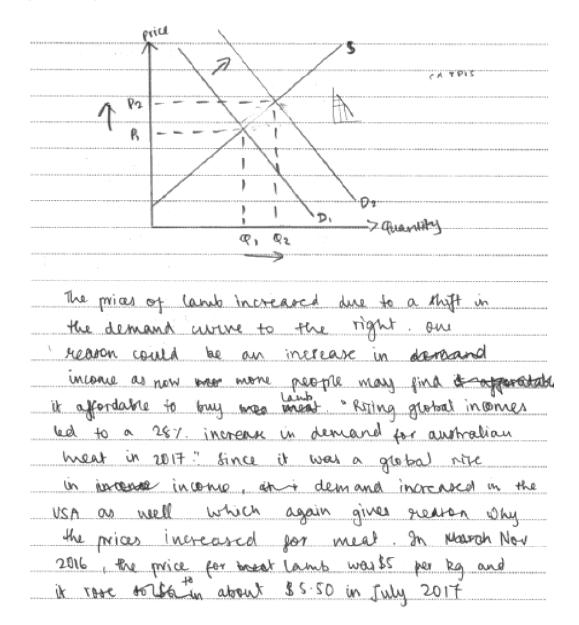
(c) With reference to Figure 2 and Extract A, analyse one reason why the price of lamb increased during 2017.

Illustrate your answer with a supply and demand diagram.

(6)

12 (c)	Knowledge 2, Application 2, Analysis 2	
	Quantitative skills assessed: QS4 : Construct and interpret a range of standard graphical forms	
	QS9 : Interpret, apply and analyse information in written, graphical and tabular forms.	
	Knowledge	
	1 mark for diagram showing original supply, demand and equilibrium (1).	
	1 mark for identification of one reason from Extract A:	
	 rising incomes / demand for Australian lamb rising 28%/ demand for lamb has risen in the USA/ advertising (1). 	
	Application	
	Up to 2 marks:	
	1 mark for the correct shift of demand on the diagram.	
	 mark for interpreting data from Figure 2: showing any change in price from 2017 e.g. from \$5.00 in 	
	Jan 2017 to \$5.80 in Dec 2017 (1).	
	NB accept reference to data from 2016 compared to 2017.	
	Analysis	
	Award 1 mark for development of how one reason leads to higher prices, e.g.:	
	 Rising incomes mean they may eat more meat and therefore buy more lamb/ with lamb being a normal good an increase in global incomes will increase demand for lamb (1). 	
	 Demand for lamb rising in the USA means more competition for lamb which pushes up the price (1). 	
	 The advertising campaign will generate more awareness/ interest in lamb pushing up demand (1). 	
	 The increase in demand sees an extension of supply (1). 	
	 PLUS 1 mark for diagram showing final equilibrium with higher price (1). 	
		l



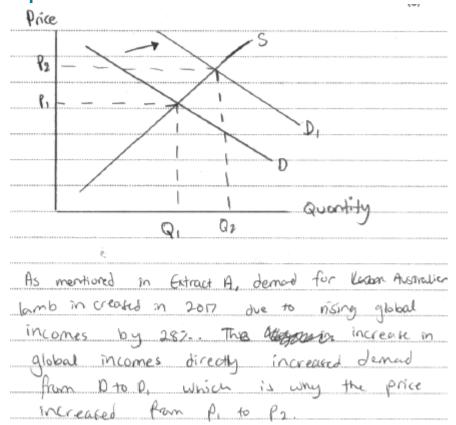


Examiner's comments:

This response was given 6 marks.

The diagram drawn achieves a knowledge mark for showing the original supply, demand and equilibrium. The diagram correctly shows demand shifting right to achieve the next mark. The final mark on the diagram is awarded for the new equilibrium price, which is clearly shown to be a higher price and quantity through use of arrows and the use of the subscript ₂.

The candidate makes reference to the increase in income for the second knowledge mark. They then make reference to the product being more affordable, which is an analysis of why demand rises for the second analysis mark. The final mark is for application in noting that the price rises from \$5 to \$5.50.



Examiner's comments:

This response was given 4 marks.

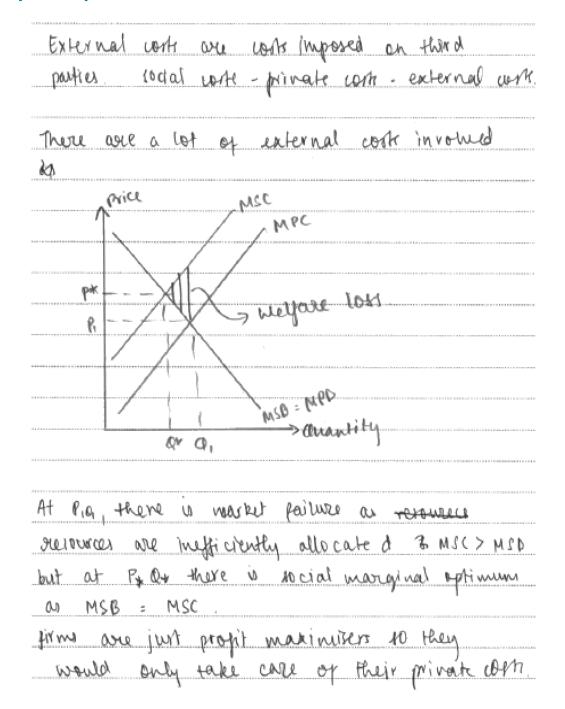
The diagram achieves the full 3 marks available. The candidate has included the original equilibrium, shift in demand and the final equilibrium. They achieve a knowledge mark for identifying that real incomes rose by 28%. No further credit is available for the diagram. To improve, the candidate needed to explain how the rise in income would impact demand for the analysis mark. For the application mark, they needed to make explicit reference to the price change.

Question 12(d)

(d) With reference to Extract B, examine the external costs resulting from increased meat production.

(8)

12(d)	Knowledge 2, Application 2, Analysis 2, Evaluation 2
	Knowledge
	Up to 2 marks for knowledge of external costs, e.g.:
	 Definition of external costs: negative impacts on third parties (1)
	 Where the marginal social costs are greater than the marginal private costs (1). May be shown diagrammatically.
	Application and Analysis
	Up to 2 marks for each linked explanation showing the external costs of meat production up to a maximum of 4 marks, e.g.:
	 Meat production causes 15% of all global greenhouse gas emissions and extra greenhouse gases may contribute to global warming. This may affect farmer's ability to grow crops (1+1).
	 Water pollution will affect water companies who have to invest more in cleaning the water/ will affect consumers who may become ill from drinking polluted water (1+1).
	 Excessive use of antibiotics is also leading to resistance amongst humans which means when antibiotics need to be used they will be ineffective (1+1).
	 Consuming too much meat damages health costing health services to treat those affected (1+1)
	Evaluation
	Up to 2 marks for two evaluative points or one evaluative point developed, e.g.:
	 Whilst firms involved in meat production benefit from production other producers lose out such as water industry (1+1).
	 External costs must be balanced with private benefits of production/ employment is created by meat production (1+1).
	 Magnitude: it depends on production as to the size of external costs and 15% represents a significant contribution to greenhouse gases (1+1).
	 Training on how to produce in an environmentally friendly way can help reduce the size of external costs (1+1).
	 Measurement of the size of any external costs is difficult to determine and quantify (1+1).
	 Meat consumption may be just as damaging as meat production. Over time, rates of obesity, diabetes and cancer



There are external contr like when people This introduces much, it damages Lealth 400 their and rabour productivity a decreak in work people worth would not be able to B.H. full potential W their

When meat no duced man W. derroyce live wu ч Wz 602 Impolan a emition The do ound gro bal ENCI warmin a ωı

external con HOWENEY, 460 man moductio extern dearin rain NON ØЛ Way care 1001

Examiner's comments:

This response was given 7 marks.

The candidate achieves the knowledge mark for defining external costs accurately. The diagram achieves the final knowledge mark as it illustrates that MSC is above MPC.

Under *Application and Analysis*, they gain marks for identifying that people eat too much as referred to in the article and then for making the link to health and productivity. This achieves 2 marks. They then make reference to CO₂ emissions and link this to global warming to achieve 2 additional marks.

They then offer evaluation, talk about the external costs being insignificant, i.e. from meat production as compared to burning fossil fuels. They gain 1 mark for this. They score 7 out of 8.

They could develop the evaluation further or offer an additional evaluation point to get the final mark.

One external cost of increased meat production is the increase in pollution. It causes walter pollution, which can kill marine wildlife and nove very dangerous if polluted water gets into the drinking Supply-It is also responsible for 15°10 of all global greenhouse emissions and therefore it is a significent contributer to climate chage. Phother external cost is the excessive use of autibiotics. By Joing this, meally producers reduce the private cust by reducing the risk of animals catching any diseases. However, the resultant decline in the effectiveness of artillatics means that people are at greater Fish to be cherical infections. As a result, more spending will have to be provided to healthcare and research & development. In avaluation, it is difficult to measure the effects of increased means production., and therefore could lead to government failure if the tax is too great, as it may cause cost-push inflation or a decline in the industry.

Examiner's comments:

This response was given 5 marks.

The candidate gains an application mark for making reference to water pollution. Development of this point to talk about killing marine life and contaminating drinking water gains the analysis mark.

The candidate gains an application mark for mentioning 15% of global emissions but does not get the development mark.

They then gain an application mark for reference to excessive use of antibiotics and how people will be at greater risk. Discussion of how more research and development will be needed achieves the analysis mark.

The evaluation offered referring to the difficulty to measure the effects gains a mark. The other evaluation offered is not credit-worthy as the question does not mention a tax which would cause government failure.

To improve, candidates needed to access the knowledge marks by defining key concepts in the question, i.e. external costs. Many also drew a diagram to access the second mark.

They would also need to offer a second evaluation point or explain why it is difficult to measure the effects on external costs.

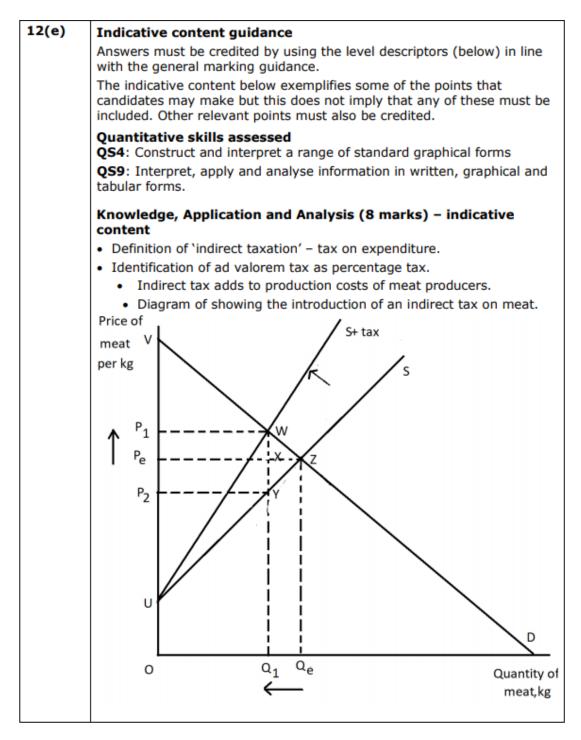
Question 12(e)

(e) With reference to Extract B, discuss the likely effects of the introduction of an indirect tax on meat.

Illustrate your answer with an appropriate diagram.

(14)

Mark scheme



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	-	inally the price paid by consumers was P_{e} but rises to P_1	
	 Reve P2 x 	enue earned by meat producers per unit sold falls from $P_{e} \mathrel{x} Q_{e}$ to Q_{1}	
	Cons P _e P ₁	sumer surplus falls from P_eVZ to P_1VW . A change/ Reduction of WZ.	
	Prod	lucer surplus falls from P_eUZ to P_2UY .	
	 Government revenue earned from the tax P₁P₂YW. 		
	Cons	Consumer incidence P _e P ₁ WX.	
	Prod	Producer incidence P _e P ₂ YX.	
	 Quantity of meat consumed will fall from Q_e to Q₁ 		
	External costs reduced:		
		 Reduced greenhouse gas emissions 	
		 Reduced water pollution 	
		 Reduced chance of resistance to antibiotics 	
		 Reduced damage to health- obesity, diabetes and cancer- reducing costs to health services 	
	Welf	are loss from overconsumption will be reduced.	
	Dear	dweight loss WYZ.	
	 Helps to meet Paris agreement target on carbon emissions. 		
		 tax on beef, 20% on dairy products and 8.5% on chicken would 500 000 lives a year and reduce emissions. 	
	Tota	 Total revenue earned by meat producers may fall. 	
	Profi	Profits generated by meat producers may fall.	
	 Emp 	loyment in meat production may fall.	
	• Imp	act on consumers living standards with such a large tax.	
Level	Mark	Descriptor	
	0	No rewardable material	
Level 1	1-3	Displays isolated, superficial or imprecise knowledge and understanding of economic terms, principles, concepts, theories and models.	
		Use of generic material or irrelevant information or inappropriate examples.	
		Descriptive approach, which has no chains of reasoning.	
Level 2	4-6	Displays elements of knowledge and understanding of economic	
		terms, principles, concepts, theories and models. Ability to apply knowledge and understanding to some elements	
		of the question. Some evidence and contextual references are	
		evident in	
		the answer.	
		Chains of reasoning in terms of cause and/or consequence are	
		evident but they may not be developed fully or some stages are omitted.	
Level 3	7-8	Demonstrates accurate and precise knowledge and	
	1	understanding of economic terms, principles, concepts, theories	
		and models.	
		Ability to link knowledge and understanding in context using	

		relevant examples which are fully integrated to address the broad elements of the question.		
		Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence.		
	Evaluation (6 marks) – indicative content			
	 Magnitude of size of tax is important. Suggested 40% tax on beef significant so likely to have a large impact. 			
	 Measurement – it is hard to measure what the ideal tax rate is for each meat/ Hard to measure the external costs associated with each meat. 			
	 Farmers/ meat producers may earn less income and lead some to leave the industry. 			
	 May create government failure as some may trade illegally to avoid or evade taxation. 			
	in qu	Demand for some meats may be price inelastic meaning little change in quantity demanded; larger change in price, larger consumer incidence.		
		 Indirect tax affects lower income families more as the tax will represent more of their total income. 		
Level	Mark	Descriptor		
	0	No rewardable material.		
Level 1	1-2	Identification of generic evaluative comments. No supporting evidence/reference to context. No evidence of a logical chain of reasoning.		
Level 2	3-4	Evidence of evaluation of alternative approaches.		
		Some supporting evidence/reference to context.		
		Evaluation is supported by a partially-developed chain of reasoning.		
Level 3	5-6	Evaluation recognises different viewpoints and/or is critical of the evidence.		
		Appropriate reference to evidence/context.		
		Evaluation is supported by a logical chain of reasoning.		

Exemplar response A

Inducent tax 11 put on expenditive an gurls Tax. and nower centes. 1 Nel and Therefore decreeks Certs Tar suppress ..\$ Stter ρ Ere (U) Pe decolum المحا βĸ ₽p D Q QC OX producer surphis Cansiner supplied T docreared Original C.i. \mathcal{Q} er c N ٢c. 0 Dл indivect wald tax Чţ NIA Cey ια modu 4 res 6D , This will ver Than elati ۵. ٨٨ denard aa eap an C q 0 mark Ø ALA

The effects of an indirect tax have a high magnitude a 40%. Shely found on daily products +200 A an -7 On world reduce 000000 omissions and 5 diller Save 500 mber, 10 $\sigma \cup \cup$ is a very 000 pontre Hoverer indure we height in government gaverne 1459 rehult - AA . **№** Mormat gaps .7 with tax peno m and ame) quernment er mer of people's a propution Smell mut of -, SU Te effer that Lorge TIM here is also grother why to redu aneromen Shard pour peuple about a response Consuption Or QI phylen associated A-520 gre intervere! pullers, etc vere terre OMANUO in hard tana + SIMI resulting in laser derind of meat

Havener, laner demand - weat -lover

This response was given 11 marks.

An accurate definition is offered and links to higher costs. The diagram is accurate although again, it would have been better if it had been drawn as an ad valorem tax. What is useful here is that the candidate has clearly identified original and new consumer surplus and producer surplus.

The comments about elasticity and how this would impact on the quantity demanded is Level 2 evaluation. Linking to whether it is likely to be elastic or inelastic would support accessing Level 3.

The candidate then links to the magnitude and refers to data again, accessing Level 2 for evaluation. The reference to government failure if information failure occurs is Level 2. Unequal effects on different income groups is also Level 2.

The discussion of information provision being better does not really add to the performance of this response. The link to producer revenue and profit and the reference to the use of the tax revenue does not improve the levels achieved by this response.

For *Knowledge* as well as *Application and Analysis*, they have shown accurate and precise knowledge, made reference to the context and offer clear, coherent and relevant analysis. This just moves this response in to Level 3 and score 7. For *Evaluation*, they achieve Level 2 and score 4. The total score is 11.

Exemplar response B

mdived οИ hax kп 15 hax 11 subsidu am tion nuses Ηлл ext 6110 WMAQSI hai ШIN an Price 2 , Si NOW P2 P D Qz Qi anostily traded hut amn an IA I 500 here MMarths IMM иM ťuρ WEVE weat MК MOLA you menhoured llu us um nave

Extract B, "a 40% stated hex best an 20% M SUNL ¢ uluz IAN MENS ON M *(D*Ct (UM 14 url nove less IMA M /74\$ uutuu (Ø5. Ø 11 leyl 055 ma M

ymm bulfult Socially Price MPC nul loss the. Vollare 15 areu ï P, đ D=MPB = MSB Q Q, Quest (No 110 wooduutio ક્રીજા AUMISON W vodULA 6 VI NO U nutari lS NOW M MU MU Wh ю teo 10 Ċί/

This response was given 9 marks.

The candidate starts by accurately defining an indirect tax. They make reference to the impact of indirect tax in raising costs and reducing external costs to access Level 2. The diagram accurately depicts an indirect tax showing the change in price and quantity. Had the candidate accurately drawn an ad valorem tax, they would have accessed a higher level. They refer to the diagram in the following analysis but better responses would refer specifically to point on the diagram, e.g. reference to P_1 and P_2 . The diagram and its use in the analysis is Level 2.

Responses that went beyond the impact on price and quantity and e.g. explored consumer and producer incidence or surplus were able to score more highly.

The response then refers to data from within the extract and this is analysed by linking the tax to how it reduces external costs. This is a strong Level 2 response.

The candidate then offers evaluation and link to price elasticity of demand and how inelastic demand would see little impact of the tax. What is useful here is that they link this to the impact on health. They then recommend an alternative policy and explain why it will be preferable.

They also refer to external costs, including a diagram. This strengthens the *Knowledge*, *Application and Analysis* to being more secure within Level 2.

Another evaluation point offered is that the previous effects are permanent. This is less well-developed.

They finish with an evaluation about setting the right tax.

The *Knowledge* as well as *Application and Analysis* achieve Level 2 and 6 marks. The *Evaluation* is also Level 2 and achieves 3 marks.

To improve the *Evaluation*, it is important to make the point, develop it and ensure that it is fully in the context of the question.

Question 13

13 'The HPV vaccine is recommended for all adults in the USA because it reduces the risk of cancer by 88%. If the HPV vaccine was given to all adults 925 000 cases of cancer would be prevented. However only 18.3% of adults were vaccinated between 2011 and 2014 preventing 170 000 cases of cancer.'

Evaluate why only 18.3% of adults were vaccinated.

(Total for Question 13 = 20 marks)

Mark scheme

13	Indicative content guidance
	Answers must be credited by using the level descriptors (below) in line with the general marking guidance.
	The indicative content below exemplifies some of the points that candidates may make, but this does not imply that any of these must be included. Other relevant points must also be credited.
	Knowledge, application and analysis (12 marks) – indicative content
	 Rational consumers – will maximise their utility.
	 They will maximise their utility by having the vaccine as it reduces their risk of developing cancer.
	 Reduces risk of cancers by 88%.
	 Prevented 170 000 cancers- could have prevented 925 000
	 US has private healthcare and low take-up may relate to costs of the vaccine.
	 The influence of other people's behaviour (herding) may mean people do not have the vaccine as their friends may also avoid the vaccine.
	 Habitual behaviour- this is a new vaccine and people will not yet be in the habit of having this vaccine.
	 Inertia- customers may not have the energy to arrange appointments and to have the vaccination.
	 Poor computational skills may exist where they cannot calculate the benefit in terms of lower cancer risk.
	 Asymmetric information/ information gaps may exist where people do not have enough information to calculate possible benefits of receiving vaccine compared to the costs of vaccination.
	 Government needs to better inform people of the benefits of having the vaccine or the risks of not having the vaccine.
	 People may fear that the new vaccine may have side effects or unknown complications- a rational decision.
	 People may ignore any external benefits- reducing costs to health services and leads to under consumption of the vaccine.
	External benefits- benefits to third parties- so consumers may under
	 consume-as they do not consider the third-party effects Low income families will be unable to afford vaccinations
Loval	
Level	Mark Descriptor

	0	No rewardable material.
Level 1	1-3	
Level 1	1-5	Displays isolated, superficial or imprecise knowledge and understanding of economic terms, principles, concepts, theories and models.
		Use of generic material or irrelevant information or inappropriate examples.
		Descriptive approach which has no chains of reasoning.
Level 2	4-6	Displays elements of knowledge and understanding of economic terms, principles, concepts, theories and models. Limited application of knowledge and understanding to economic problems in context. A narrow response or superficial, only two-stage chains of
		reasoning in terms of cause and/or consequence.
Level 3	7-9	Demonstrates accurate knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to apply knowledge and understanding to some elements of the question. Some evidence and contextual references are evident in the answer. Analysis is clear and coherent. Chains of reasoning in terms of
		cause and/or consequence are evident but they may not be developed fully or some stages are omitted.
Level 4	10- 12	Demonstrates accurate and precise knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to link knowledge and understanding in context, using appropriate examples which are fully integrated to address the broad elements of the question. Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence.
	Evalua	ation (8 marks) – indicative content
	 Mease extension vacconstruction 	surement problem – it is difficult to measure the size of any rnal benefits/ it is difficult to measure truly how many cancers the ine would prevent- figures given are estimates.
	18.3	nitude – a significant number not taking the vaccine with only % take up.
	over more	e frame – in the short-term people may not take the vaccine but the long-term with more information and more being protected e will take the vaccine.
		e may be acting rationally as they fear there are unknown lems with the vaccine.
		ortunity costs of having the vaccine. e numbers of poor households in the USA cannot afford the
	vacc	
Level	Mark	Descriptor
	0	No rewardable material.

Level 1	1-3	Identification of generic evaluative comments. No supporting evidence/reference to context. No evidence of a logical chain of reasoning.
Level 2	4-6	Evidence of evaluation of alternative approaches. Some supporting evidence/reference to context. Evaluation is supported by a partially-developed chain of reasoning.
Level 3	7-8	Evaluation recognises different viewpoints and/or is critical of the evidence, leading to an informed judgement. Appropriate reference to evidence/context. Evaluation is supported by a logical chain of reasoning.

Exemplar response A

A must good in a good that is underprovided by the masket in an
economy. The HPV vaccine is an example of a merit good.
According to the octract, the HPV vaccine is recommended for all
adultor in the USA because its reduces the risk of cancer by 88%. If the
HPV & vaccine was given to all adults, 925 000 cases of cancer would
likely be prevented.
A rational constrainter would indeed tog to maximize their utility or
sotriafaction throwough thriz and take the vaccine. However, as mentioned
in the crocade, only 18.3%, of adults were vaccinated between 2011 and
2014, preventing only 170 000 cases out of 925 000 cases of cancer.
This shows that commens were not believing rationally. This may
have been due to imperfect information or information symmetry.
Internation symmetry is a condition where only one party has talk
more intermedian than the other party. In this case, only the US
government or health sector is aname of this information but the
public in unaviance. Hence, it is underconsumed and underprovided
A negative externality is a negative spillover effect on trival
partition who are not involved in the economic trainsaction. Here the
MSB > MPB
/MPC = MSC
Cast Bernetit
Positive externality
MSB
MPB
Free Society Society
Wet level
The tree master level in mineric MPB = MPC and the socially optimum level
in where MSB = MSC. since the free masket level in below the socially
aptimism level, there is underconsimption.
The private benefits of the HPV to receiver are to reduce the drances

of easier and improve the innovunity of the people.
The stend benefits of HPV vaccine is a more heating workforce,
leading to increased productivity and reduced weathr issues this will benefit
times enophonoung labour as well as the economory. as output per worker
may increase and the PPC will shift to the neght, causing economic
groutes .
However, due to information asymmetry, people are unaware of
the provate and obernal benefits of the APV vaccine. Here there is
undurconsumption.
Book long that governments providing free of analyse medical services pure
the consumers will be more aware and think consume the HPV reactive.
As a remate, the proper economy will more to the socially optimum
Level.
However, it is districult to exactly measure the externality and
provide a monetary volume on the Nine, source the government and
health sector of the economics carry out the research, their relates too
mang be preme to withmodien anymostany.
Futurer, the government may income administrative costs to
provide free of charge medical services to improve the consumers'
awaheners. This may lead to government taking as it can affect the
undarde, leading to landart deficit.
Next, there is an increasing opportunity cost to the government
This means that watered of spending on weath services, the us
government may have spent on education or intrastructure to improve
the even current state of the Reensming.
Leattly, the treens of behavioural commics can be

brought formand to state that it may not be information asymmetry
that causes consumers to believe inotionally, but rather other factors
such as inertia, habit er even herding.
thus, it can be concluded that information asymmetry is the main
cause for so people to underconsume the HPV vaccine and through the
government spending

This response was given 15 marks.

This candidate starts by identifying the vaccine as a merit, without explaining what this means. They make reference to the fact that the rational consumer would maximise utility to prevent cancer. They then go on to explore the fact that only 18.3% have the vaccine (this suggests that the irrational consumer). The candidate considers imperfect information although they refer to it as information symmetry. They clearly understand it though as they explain how the government has information but the public is unaware.

They next explore positive externalities and integrate an accurate diagram to show the underconsumption. They then go on to link to the external benefits by discussing impact on firms and productivity. They then link this to information asymmetry.

In the evaluation, they do consider the government's role in filling this information gap. They also evaluate by looking at the difficulty in measuring the externality and issues with the government in collecting information.

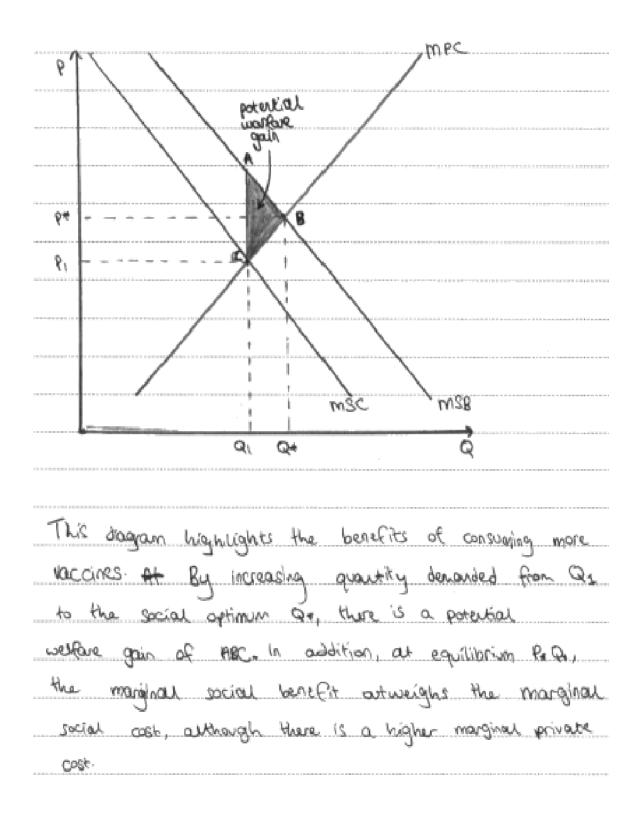
They look at opportunity costs but this is not really focused on the question set. They consider a range of reasons for rationality but these are not discussed in detail. A conclusion is offered but this is not fully justified.

The *Knowledge* as well as *Application and Analysis* show a weak Level 3. They demonstrate accurate knowledge and understanding of relevant concepts. They are able to apply knowledge and understanding in the context of the vaccination. Analysis is clear and coherent and they do offer chains of reasoning. This is, however, not fully developed and scores 9.

For *Evaluation*, it is Level 2. The candidate uses evidence of alternative approaches with some supporting evidence and links to context. There is a partially developed chain of reasoning and so the response scores 6.

Exemplar response B

The HPV vacche is an example of a good whose consumption has creates a positive externality on society. One reason as to why only 18.3% of aduts received HPV vaccinations may be due <u>to</u> asymmetric information. This is when there is an inequality in the information share & between producers and consumers, leading to market failure. the a result, many people may not hear about the vaccine and therefore dont do not experience the social benefit. -----Another reason may be because of irrational behavious. This could An example of this being the belief that vaccines cause autism, which would cause those who do know about the vaccine to intentionally not receive it. The number of people choosing not to receive the vaccine would be higher in stables that have lower literacy rates and pourer education systems, such as 14 Alabama.



Another reason as to why so many people did not receive the vaccine may be due to the fact that they cannot afford the vaccine. A vaccine with such a significant tall to risk reflect word undoubtedly not be free. As addresult, there may be those who have no choice, and decide other that other necessities such as food, running weater and electricity are more important to them than receiving the varche. Therefore, the apportunity cast of them not receiving the vaccine is less than the opportunity cast of them receiving it. Furthermore, there may also be people who live remote A areas, such as forests. As a result, they are 150 lated from society and to not receive information about the vaccine. In evaluation, reaple may also be lazy. If they do not know anyone who has had cancer or do not fully understand the seriousness of it than they may treat it as a distant Issue. Prother evaluative point is that cancer is not an infectious or contagious disease. As a result, certain individuals In many feel inclined bot to receive the vaccine, because

it cannot be spread, and therefore a vaccine would not
help-
Another evaluative point is due to the opportunity cost
to individuals of receiving the vacche. Those on law
increases may feel that other necessities - such as
food, water and electricity - are more important to them
than see receiving the vaccine. As a result, the opportunity
cost to the individual of not receiving the vaccine is
less than them choosing to receive the vaccine.

This response was given 9 marks.

The candidate accurately starts by identifying that vaccinations create a positive externality. This, however, is undeveloped and does not look at how it is creating positive externalities and limits consumption of the good. They then identify asymmetric information and offer some basic development of how people are not aware of the vaccine so do not have it as a result.

The candidate looks at irrational behaviour and links it to autism scares, the education system and literacy rates. This section accesses Level 2.

The next section then returns to positive externalities by way of diagram but it is inaccurate. This section adds nothing to the quality of the response.

Next, they explore affordability and link this to opportunity costs to access Level 2. They also consider those living in rural areas and lacking access. They attempt to offer evaluation although it seems to reiterate the point about information failure.

The following evaluation point is better as it makes reference to cancer not being infectious/contagious and how this will mean people will worry about it less. They then look at opportunity costs and how people on low incomes will prioritise other consumption.

For *Knowledge* as well as *Application and Analysis,* they have managed to offer sufficient development to achieve the middle of Level 2. They score 5/12. For *Evaluation*, they have offered some basic points with basic development. Because this just accesses Level 2, they score 4/8.

To improve, the candidate needed to offer further development of the reasons why people did not vaccinate. More should have been linked to vaccinations, specifically to ensure the work was in context. For evaluation, they needed to develop the response ensuring it was within the context of the question.

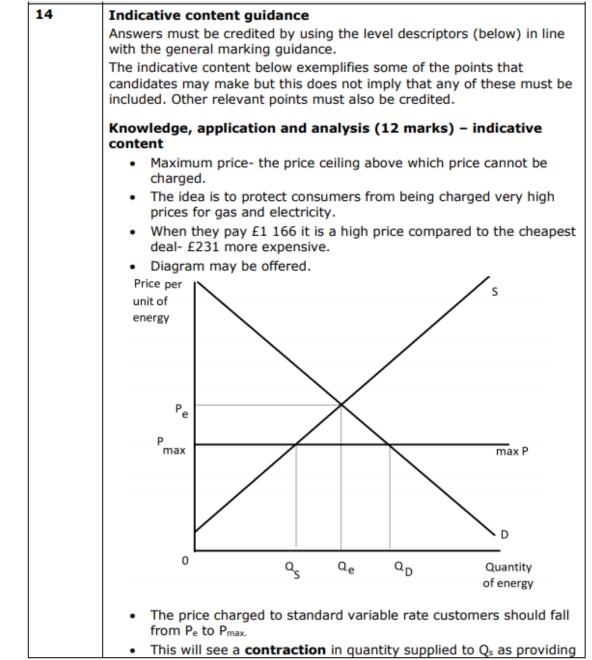
Question 14

14 '12 million consumers within the UK are on standard variable tariffs for their gas and electricity. One energy supplier, RWE npower, charged consumers on the standard variable rate £1 166 per year. However, its cheapest deal was £935 per year. Consequently the UK Government is introducing a maximum price for gas and electricity.'

Evaluate the likely impact of the introduction of a maximum price for gas and electricity.

(Total for Question 14 = 20 marks)

Mark scheme

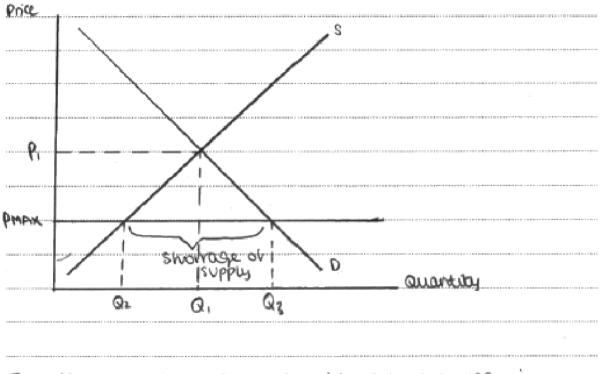


		the good is less profitable.
	•	The lower price will see an $\textbf{extension}$ in demand to Q_{D} as product is more affordable.
	•	Maximum price causes excess demand/ a shortage.
	•	Consumer surplus will rise for those being charged a lower price.
	•	Producer surplus will fall.
	•	Total revenue and profit may fall for electricity and gas providers.
	•	Could reduce choice to consumers as some firms may decide to leave the market, further increasing the shortage in the future.
	•	The emergence of informal activities, alternative sources of energy.
Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-3	Displays isolated, superficial or imprecise knowledge and understanding of economic terms, principles, concepts, theories and models.
		Use of generic material or irrelevant information or inappropriate examples.
		Descriptive approach, which has no chains of reasoning.
Level 2	4-6	Displays elements of knowledge and understanding of economic terms, principles, concepts, theories and models.
		Limited application of knowledge and understanding to economic problems in context.
		A narrow response or superficial, only two-stage chains of reasoning in terms of cause and/or consequence.
Level 3	7-9	Demonstrates accurate knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to apply knowledge and understanding to some elements of the question. Some evidence and contextual references are
		evident in the answer.
		Analysis is clear and coherent. Chains of reasoning in terms of cause and/or consequence are evident but they may not be developed fully or some stages are omitted.
Level 4	10- 12	Demonstrates accurate and precise knowledge and understanding of economic terms, principles, concepts, theories and models.
		Ability to link knowledge and understanding in context using appropriate examples which are fully integrated to address the broad elements of the question.
		Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence.
	Evalu	ation (8 marks) – indicative content
	•	Measurement problem – what level should maximum price be set at.
	•	Magnitude – depends on level of maximum price as to whether it

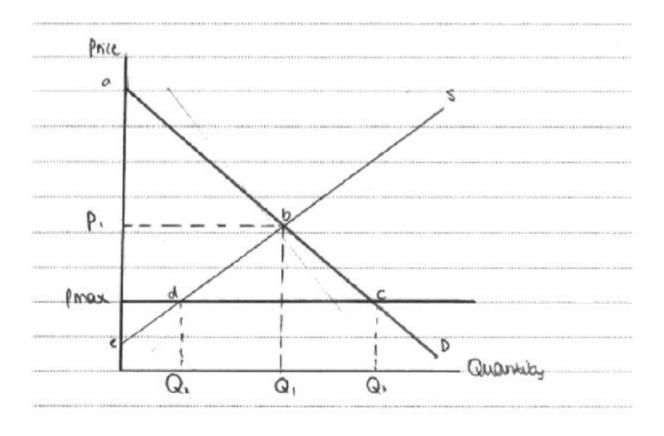
	• • • •	 will have desired impact/ 12 million may benefit from this policy. Time frame – it will take time for the maximum price to be implemented. Consumers may be worse off if they cannot secure a supplier as supply contracts. Regulators will ensure customers still receive supply. Firms may change the way they charge to get around the maximum price. Long term energy supply problems if maximum prices discourage investment in the industry. Demand likely to be inelastic so little change in quantity
Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-3	Identification of generic evaluative comments. No supporting evidence/reference to context. No evidence of a logical chain of reasoning.
Level 2	4-6	Evidence of evaluation of alternative approaches. Some supporting evidence/reference to context. Evaluation is supported by a partially-developed chain of reasoning.
Level 3	7-8	Evaluation recognises different viewpoints and/or is critical of the evidence, leading to an informed judgement. Appropriate reference to evidence/context. Evaluation is supported by a logical chain of reasoning.

Exemplar response A

A maximum price is me nighter amount a producer can charge for a produce. It acts as a price ceiling, and produce prevention consumers to an consumers to be able to afford be the produces good / service.



The diagram above shows me impact of a maximum price on me mancet for gas and electricity. There will be a showage of supply Q3-Q2.



Consumer surplus is litely to addy increase from P. ba to Process Companiately producer surplus well significantly decrease from P. bc to Proceed. This may cut firms' profits and revenues, remains their incensive to supply more. Firms may lose too much money and buer their increment, or even reduce meir demand Por labour, whereasing leading Many workers to become wrenplayed.

On the other hand, consumers of all involves will more likely be able to alroad gas and electricity improving meir living standards and quality of like

Consumes well consume more electricity, for purposes like heat or BR air conditioning, hence may may be more productive and efficient at their places of work. It would be equilibrian cheaper for consumes to purchase a car, as gas upper is chara-more a Frondable. This would significantly cut wansport costs, encouraging mose mai take public hansport to some wavelling privately, allowing & people to get to work paster and be productive for longer hours. metaverage A large pondon of a consumpt disposable income is likely to go towards paying bills such as gas and electricity. Hence a significant reduction in the prices of gas and electricity, will enable consumers to enjoy a larger porrion of their disposable income.

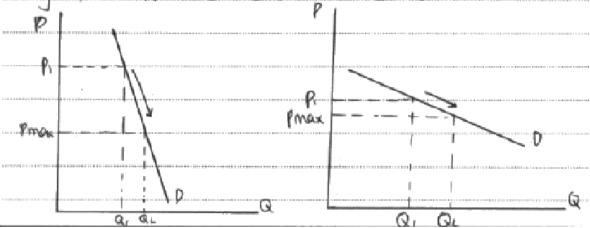
on the other hand, with an increase of private retricus on the road, mere's a higher possibility of congestion and pollution occurring, being emilted. This is harmful to the natural environment and could cause future problems such as climate change.

Additionally, gas is a non-renewable versure. which means its supply is finite By speeding up its consumption, by Lowenna its price, its exhaustron will come sooner man expected. In the short run prices may be low, however in the long run (angostoconserver) (as the resource gas starts to run out) prices may be pushed up to significantly.

As the price ralls, firms will make less provit and revenue, which will only reduce the annount of tax revenue the government receives

However, the litely impact of a meximum price on gas and electricity depends on hose how far below it is set under me market equilibrium price. If there's only a small decrease, films may not lose too much profit.

Additionally, it depends on me PED of gas and electricity. IF me PED is elastic, Firms' revenue will only increase, however it inelastic it reduces meir revenue. There's a high possibility mat gas and electricity are PED inelastic, as may are a necessity for basic every day activities. Nowever, more are alternatives to gas, which could make it PED elastic.



Pearson Edexcel International Advanced Subsidiary/Advanced Level in Economics Unit 1 - Exemplar materials Issue 1 – February 2020 © Pearson Education Limited 2020 Furnemore, the overall impact or a maximum price on gas and electricity will depend on the magnitude of people mat benefit from it. In the UK 12 million will be impacted, so a large effect may be seen, although it may be difficult to measure.

This response was given 16 marks.

The first paragraph shows accurate knowledge of a maximum price and the candidate links this to making the product affordable. The diagram is drawn accurately and explicitly identifies the shortage, which they also outline in the paragraph underneath the diagram.

The candidate has then drawn the diagram a second time. This does not seem to be an effective use of limited time in the examination as the same information could have been presented on the original diagram. In the following paragraph, they identify the original and new consumer surplus and producer surplus. They explicitly and accurately identify each area on the diagram. This section accesses Level 3. They also refer to reduced revenues and profits and how these will have less incentive to supply. They also link it to lower investment and demand for labour. Whilst all valid points, these particular aspects could have been developed further.

The candidate then looks at the impact on affordability and how being able to afford more heat and air-conditioning helps with productivity. The next section interprets gas as petrol and the analysis offered here is credited despite it not being in the full context of the specific question.

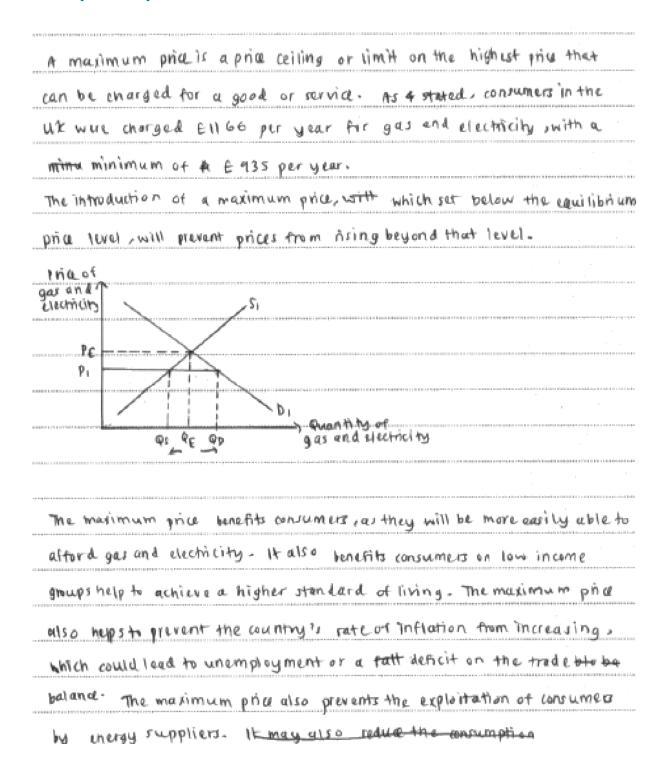
The candidate makes it clear that gas and electricity make up a significant proportion of income and that this will have a larger impact. This is credited as a developed evaluation. They evaluate also by considering the environmental impact - credited despite the attempt to link it to driving more. Additionally, they consider the speeding up of the exhaustion of the non-renewable resource. They consider how this, in fact, could cause prices to rise long-term.

They consider the level of the maximum price and how this could affect the level of profit. The candidate explores elasticity, incorporating diagrammatic analysis. What moves this discussion to Level 3 is the context of how gas and electricity are likely to be essentials and therefore have inelastic demand, meaning that lower prices will reduce revenues. They also consider the magnitude and use data to put this into context.

The *Knowledge* as well as *Application and Analysis* demonstrate Level 3. They demonstrate accurate and precise knowledge and understanding of maximum prices. They apply this effectively to the gas and electricity sector. The analysis is clear and coherent. Chains of reasoning are developed. They could have offered further chains of reasoning, e.g. reference to revenue and profits. The candidate thus scores 9.

The *Evaluation* is Level 3. The score for this is 7. The evaluation offered puts forward different viewpoints. There is strong reference to the context of gas and electricity. There is a logical chain of reasoning.

Exemplar response B



However, the implementions of a maximum price may also cause several
problems. As shown in the diagram, when the maximum price is set.
this causes a contraction in supply from all to Qs and an expansion
of demand from QE to QD - This causes a shortage or elexcess
demand within the economy- This will cause shortages of gas
and electricity for consumers, which will cause standard of living to fall-
Further, the decrease in prices will lower of cast of priti many
revenue and profits of energy suppliers - mis may cause firms to lay
off workers in an attempt to maintain their profit margins - This would
increase unemployment, as well as reduce living standards.
In addition - the maximum price may cause the exit of firms from the
market or the relocation of energy suppliers to other countries where there
is no maximum price allocated. This causes a fall in the international
competitiveness of the country. Purtner, the maximum price may cause
shadow markets or hido the presence of a "black" market. This will
allow energy suppliers to provide gas and electricity at a nigher price,
leading to the exploitation of consumers and making the maximum price
ineffective, showing that there is government tailure-

This response was given 12 marks.

The candidate starts by accurately defining maximum price and referring to information from the question about the level it is set at. The diagram is drawn accurately and clearly shows the impact of the quantity demanded and quantity supplied.

The following paragraph considers affordability, particularly for those on lower income. They consider a number of macroeconomic aspects, without really explaining them.

Although offered as evaluation, the start of the next page explains the diagram. The candidate uses accurate economic terminology in talking about the extension of demand

and contraction of supply. They explicitly make reference to the shortage and this becomes evaluation where they link this to how, in fact, consumers will be worse off due to a shortage.

The candidate considers the impact on energy firms' profits and revenues and links this to likely lay-offs. They discuss the maximum price and how it might cause exit from the market as firms move to countries without maximum prices. They offer evaluation, linked to government failure and possible shadow markets.

The *Knowledge* and *Application and Analysis* score just within Level 3. The candidate shows accurate knowledge, offers application to the gas and electricity market and effectively uses a diagram in their analysis. Thus, the score is 8. *Evaluation* is at Level 2. The candidate scores 4. They do consider alternative approaches and offer reference to the context but the chain of reasoning needs to be more developed.

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