



Mark Scheme (Results)

Summer 2017

Pearson Edexcel International Advanced Subsidiary in Economics (WEC01) Paper 01 Markets in Action





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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.



Section A: Supported multiple choice

NB: Candidates may achieve up to 3 explanation marks even if the incorrect option is selected.

NB: Candidates may achieve up to 3 marks (rejected marks) for explaining three incorrect options (provided three different reasons are offered and each option key is clearly rejected).

Question Number	Answer	Mark
1	 Answer B (1 mark) Explanation (up to 3 marks) Definition of positive statements- use facts to support/ can be proved/can be tested value free/ objective/ scientific approach (1) Definition of normative statement- based on value judgements/ cannot be tested/ subjective (1) Statement 1 is normative as it is a value judgement containing the word unfair (1) Statement 2 is positive as you can check whether the supply of agricultural commodities increases due to the subsidy (1) 	
	 Rejection marks Do not double award Option A: incorrect as statement 2 can be proved by checking the amount of subsidy (1) Option C: incorrect as statement is based on value judgement (1) Option D: statement 1 is normative as it has word unfair, statement 2 is positive based on fact (1) 	
		(4)



Question Number	Answer	Mark
2	Answer C (1 mark) Explanation (up to 3 marks)	
	Definition of consumer surplus- difference between price willing to pay and actually paid/ area between equilibrium price and demand line (1)	
	Supply increases/ rightward shift (1)	
	 Price falls from P_e to P1 (1) 	
	 Consumer surplus increases from FGP_e to FIP1 (1) 	
	 The increase in consumer surplus is by the area GIP1P_e (1) 	
	 Award marks for each of these identified on diagram (do not double award) 	
	Price per kg of carrots	
	P _e G	
	P1	
	O Q _e Q1 Quantity of carrots	
	 Rejection marks Option A: incorrect as whilst the price does fall from Pe to P1, the producer surplus rises as the gap between the willingness to sell and amount paid will be larger (1) Option B: Although producer surplus does rise, more supply means that there can be an extension of demand causing price to fall (1) Option D: Producer surplus was PeGH and is now P1IJ which shows producer surplus has risen. Price falls to P1 not rises (1) 	
	NB: They may explain why either the price change or change in consumer / producer surplus is wrong and do not need to explain both.	(4)



Question Number	Answer	Mark
3	Answer D (1 mark)	
	 Explanation (up to 3 marks) Definition of habitual behaviour- where customers continue an action even when it does not maximize utility to do so (1) 	
	Customers will be familiar/ comfortable with their financial provider/ bank and will prefer to use them even if they could save money elsewhere/ trust current provider (1)	
	 Switching would save customers £70 so could increase their utility as they could consume other products/ failing to maximise utility as lose out on £70 / irrational as failing to maximise utility (1) 	
	 might be another reason for not changing bank account such as customer 'inertia', where there is too much hassle switching accounts including debits and credits/ ignorance/ tied to a deal (1) 	
	Rejection marks	
	 Option A: Rational customers will maximize their utility and switching helps them to do so as they will have more funds to consume other goods (1) Option B: if people were good at computation they would see the benefit of switching and would be more likely to switch (1) Option C: external costs are negative third 	
	party effects and these are unlikely to occur based on who someone choose to bank with (1)	(4)



Question	Mark	
Number 4	Answer B (1 mark)	
	 Explanation (up to 3 marks) Definition of diminishing marginal utility- where the additional utility from consuming additional unit starts to fall/ where the marginal utility falls as quantity rises (1) Definition of utility- the benefit or satisfaction experienced by the consumer (1) When consumers go up for their second/third portion they often become full/ satiated (1) Each visit will gain less additional utility which is why a smaller percentage each time will go for an additional visit (1) 	
	 Rejection marks Option A: Incorrect as free rider problems is associated with public goods and not private goods/ public goods have the free rider problem and are non-excludable and non-rival. You eating your breakfast will exclude others from eating it/ free rider is someone who does not pay but hotel guests do pay (1) Option C: Incorrect as excess demand for breakfast cereal would see the demand exceeding supply and it is likely to breakfasts would sell out/ No excess demand as only 10% visit 3 x or more (1) Option D: incorrect as someone greeting them for breakfast might make them feel valued but how many times they collect food will not (1) 	(4)

Question Number	Answer	Mark
5	Answer D (1 mark)	
	Answer D (1 mark) Explanation (up to 3 marks) Identification of derived demand (1) The demand for labour is dependent on the demand for the final product (1) So if the demand for cars rise it causes the price for cars to rise (1) This means firms make more profit and they have more incentive to increase output (1) This pushes up wages and employment (1) Award 1 mark for showing Demand rising and price rising on global market for cars. Award 1 mark for showing demand rising and wages rising in the labour market for car factory workers. I mark for showing increased employment in the labour market for car factory workers. Avarage price per car Plugarate Quantity of cars	



Rejection marks

- Option A: rising demand would see an extension of supply pushing up prices/ with rising demand the demand for labour would rise and this causes wages to rise not fall (1)
- Option B: Incorrect as car prices would rise not fall as demand rises. Car workers will also see their wages rise as more cars ned to be made to meet demand (1)
- Option C: the rising demand and price would see firms manufacture more cars and the demand for labour would rise which would push up wages (1)

Candidates must explain why the key is wrong

(4)



Explanation (up to 3 marks) Definition or formula of price elasticity of demand- the responsiveness of quantity demanded to a change in price (1) Definition or formula of price elasticity of supply- the responsiveness of quantity supplied to a change in price (1) Price inelastic- where quantity demanded or supplied is less responsive than the price change (1) Maximum 2 for definitions Candidates can define price inelastic demand or price inelastic supply Value between 0 and 1 shows it will be inelastic (1) 10% rise in price will see supply rise 1.4% (1) and demand fall by 1% (1) Diagrams showing price inelastic demand/price inelastic supply and supply curves (1) Rejection marks Option A: incorrect as supply would rise by less than 10% at 1.4% (1) Option B: incorrect as supply changes by greater percentage than demand at 1.4% versus 1% (1) Option C: incorrect as whilst demand is inelastic it is price inelastic/ the data does not relate to income but price (1)	Question Number	Answer	Mark
(4)		 Explanation (up to 3 marks) Definition or formula of price elasticity of demand- the responsiveness of quantity demanded to a change in price (1) Definition or formula of price elasticity of supply- the responsiveness of quantity supplied to a change in price (1) Price inelastic- where quantity demanded or supplied is less responsive than the price change (1) Maximum 2 for definitions Candidates can define price inelastic demand or price inelastic supply Value between 0 and 1 shows it will be inelastic (1) 10% rise in price will see supply rise 1.4% (1) and demand fall by 1% (1) Diagrams showing price inelastic demand/price inelastic supply and supply curves (1) Rejection marks Option A: incorrect as supply would rise by less than 10% at 1.4% (1) Option B: incorrect as supply changes by greater percentage than demand at 1.4% versus 1% (1) Option C: incorrect as whilst demand is inelastic it is price inelastic/ the data does 	(4)



Question Number	Answer	Mark
7	Answer A (1 mark)	
	 Explanation (up to 3 marks) Definition of minimum wage- the lowest amount a business can pay workers/ Floor wage below which firms cannot pay (1) 	
	Wages per hour	
	W ₁ NMW ₁	
	W _e	
	0 Q 1 Qe Q Quantity of unskilled agricultural workers	
	 Minimum wage sees wage rise above equilibrium / We to W1 (1) Contraction of demand for labour/ quantity demanded falls Qe to Q1 (1) Extension of supply of labour/ quantity of labour supplied 	
	rises Q _e to Q (1) • Excess supply/ Unemployment rises to Q-Q ₁ (1)	
	 Rejection marks Option B: Incorrect as the higher wage will see firms demand less labour Qe to Q₁ (1) Option C: Incorrect as employment was Q_e and is now lower at Q₁ (1) 	
	Option D: incorrect as supply of labour will extend as the wage offered will be higher (1)	(4)



Answer	Mark
 Answer B (1 mark) Explanation (up to 3 marks) Definition/explanation of tradable permit scheme- a permitted amount each firm can pollute to (1) and scheme where firms can buy and sell permits to each other (1) If a firm cuts its emissions it can sell excess permits (1) If firms produce more than permit allows they will purchase from those with spare permits/cost of buying additional permits acts as incentive to reduce emissions (1) The Chinese Government will set a quantity of permits and allocate to firms (1) The Government will normally reduce the number of permits each year to reduce the amount of pollution and external costs over time (1) 	
 Rejection marks Option A incorrect as subsidies are not used within a tradable permit scheme as market forces are used to eliminate external costs (1) Option C incorrect as tax is not used within a tradable permit scheme as market forces are used to eliminate external costs (1) Option D firms are able to pollute up to their allowance it is when they go over that they will have to buy permits (1) 	
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Section B: Data response

NB: KAA marks relates to those awarded for AO1, AO2 and AO3

NB: Evaluation marks relates to those awarded for AO4

Question Number	Answer	Mark	
9(a)	Knowledge, application and analysis (up to 6 marks)		
	 Data reference car insurance fell from approximately £850 to £580 (1) Accept 830-870 and 550-600. Accept an explicit change in price. increase in the number of insurance companies offering car insurance/costs have fallen for car insurance companies because of new laws/lower administration costs (1+1) 		
	Diagrammatic analysis which shows: a shift to the right of the supply curve (1) original equilibrium price and quantity (1) new equilibrium showing lower price and higher quantity (1) 		
	Price of insurance		
	Q Q1 Quantity of insurance		
	(if they depict a shift in the demand curve, award a maximum of 2 out of the 3 marks available for the diagram)	(6)	



Question Number	Answer	Mark
9(b)	 Knowledge, application and analysis (Up to 4 marks): Definition of complements- where the XED is negative/ where goods are consumed jointly (1) breakdown insurance and car insurance/car and car insurance (1) Definition of substitutes- where the XED is positive/ where goods are consumed in place of another/ where goods meet the same need or 	
	 want (1) Drivers substituting between one insurance company and another (1) 	
	Maximum 2 marks if not related to context	(4)



Question Number	Answer Mark			
9(c)	(14)			
	application and analysis – indicative content	(14)		
Knowledge,	Definition of indirect tax- tax paid via third party Ad valorem tax may be identified/defined Diagram may be drawn to show impact of increase in tax Price of insurance Ad valorem tax showing tax revenue or incidence will achieve L3 Impact on insurance companies Price received falls to A Quantity falls to Q1 Incidence of tax on producer- AP Reduced producer surplus Impact on car drivers Price paid rises P to P1 Incidence of tax on consumer PP1 Reduced consumer surplus Less motor insurance cover- more risk and costs if in accident More risk of fine, bans for driving uninsured, being hit by uninsured driver Impact on Government Government revenue ABCP1 Funds that can be used elsewhere- e.g. roads Externalities as more uninsured drivers			



Level	Marks	Descriptor
0	0	A completely inaccurate response.
1	1-3	Shows some awareness of the effect of the introduction of tax but information presented is often irrelevant and
		lacks organisation. Frequent punctuation and/or
		grammar errors are likely to be present and the writing
		is generally unclear.
2	4-6	Understanding of the effect of the effect of the
_		introduction of tax in the context. This may be
		supported by a diagram.
		Material is presented with some relevance but there are
		likely to be passages which lack proper organisation.
		Punctuation and/or grammar errors are likely to be
		present which affect the clarity and coherence.
3	7-8	Clear understanding of the effect of the introduction of
		tax in the context. This may be supported by an
		accurately labelled diagram which is explained and
		applied effectively. Material is presented in a relevant
		and logical way. Some punctuation and/or grammar
		errors may be found, but the writing has overall clarity and coherence.
Evaluation -	indicativ	
	insur	ntity unlikely to fall as illegal not to have car rance – likely to make demand more price
	inela	
		ct depends on enforcement on uninsured
		ers as to whether people stop purchasing
	● Magi	nitude – depends on how much tax rises- 6 to
		nt of any changes will depend on the PED
		surement issue measuring the size of changes
		oducer/ consumer surplus and incidence
		e period: short term little impact but long term
		cause more change
	 Peop 	le may substitute to trains/ bikes as these
		titutes are relatively cheaper/ depends on the
		nt to which trains/bikes are substitutes for car
		ership
	• gove	ernment failure or unintended consequences
Level	Marks	Descriptor
0	0	No evaluative comments.
1	1-2	For identifying evaluative comments without
		explanation or for developing one evaluative comment.
2	3-4	For developing evaluative comments supported by some
		reasoning and application to context.
3	5-6	For well-developed evaluative comments supported by
		relevant reasoning and clear application to context.



Question Number	Answer		Mark
9(d)		(10)	
Knowledge,		on and analysis – indicative content	T
	econ anot than Claim from Cons drivin It is insur Uning drivin Uning 26 5	nition asymmetric information- where one omic agent has different information to her/where one party has less information another. In against uninsured drivers increased 12 884 in 2013 to 13 483 in 2014. Sumers not aware of the risk involved in ing uninsured. Illegal to drive in the UK without rance. police can take away uninsured cars. sured drivers face a £300 fine/ losing ing licence. sured drivers kill 130 people and injure 00 every year. annual cost of uninsured driving timated to be £400 million.	
Level	Marks	Descriptor	
0	0	A completely inaccurate response.	
1	1-2		
2	3-4		
3	5-6 Clear understanding of asymmetric information in the context of insurance market in UK. Material is presented in a relevant and logical way. Some punctuation and/or grammar errors may be found, but the writing has overall clarity and coherence		cal way. may be



Evaluation – indicative content			
	 Magrisigni Meas May ratio averations £200 Unin take beca Your getti insurations Thus decise othe signi Governinfor Som 	nitude- only 2.8% of drivers/ million drivers ficant surement problem- it is only an estimate not however be a lack of information but a nal decision. Fines for being caught uninsured age £300 but the average premium costs of for young drivers sured drivers, having full knowledge, may the conscious decision to be uninsured use of the cost of drivers might decide to take the risk of ang caught and fined than pay the cost of trance suninsured drivers may take the conscious sion of being uninsured with full knowledge. In the rowrds asymmetric information may not be ficant the romation may not be drivers may be uninsurable given past and drive uninsured	
Level	Marks	Descriptor	
0	0	No evaluative comments.	
1	1-2	For identifying evaluative comments without explanation.	
2	3-4	For evaluative comments supported by relevant reasoning.	



Question	Answer	Mark
Number		(4.4)
9(e)	application and analysis indicative content	(14)
Knowledge,	Possible measures identified in the extract. (accept other relevant responses) • subsidise insurance of young people to encourage them to take out insurance. • providing information on the effects of being uninsured on all drivers. • maximum price would prevent insurance companies from charging excessive amount to young people • insurance providers offer cheaper insurance for safe young drivers or those with a mileage monitoring device • accept reference to fines and taking car away/ reducing indirect taxes 'measures' in question implies the need to talk about at least 2 policies Subsidies Advantages • Lowers costs for producers	
	 Lowers costs for producers Increases supply Lowers price (may be drawn diagrammatically) Increases quantity insurance taken out Link to benefits- to third parties hit by drivers Increased consumers and producer surplus Consumer and producer subsidy Disadvantages	
	 Cost to Government for subsidy Opportunity costs of public money so private individuals insured. More motorists on road and so more congestion 	
	Information provided Advantages	



Disadvantages

- Opportunity cost to government to promote information
- Assumes government holds accurate information
- People may be risk loving and not take notice

Maximum price

Advantages

- Lowers price of insurance below market price
- · This causes extension of demand
- Ensures all can afford insurance
- May persuade some to take out insurance
- Reduces risk of being hit by an uninsured driver
- (May draw a diagram)

Disadvantages

- Insurance firms may contract supply
- Excess demand exists
- May be shown diagrammatically
- Is this easy to enforce
- May just lower quality of cover

Devices

Advantages

- · Risk of the individual can be assessed
- Incentive to drive better/safer to reduce premium
- More affordable for young people

Disadvantages

- Costly to fit
- Data provide to insurance provider may not be available to consumer- asymmetric information
- Should it target all drivers

Advantages or disadvantages may be used as either KAA or Ev



Level	Marks	Descriptor	
0	0	A completely inaccurate response.	
1	1-3	Shows some awareness of the advantages or	
		disadvantages of policies to reduce uninsured drivers	
2	4-6	Understanding of advantages or disadvantages policies	
		to reduce uninsured drivers with some application to context.	
3	7-8 Clear understanding of advantages or disadvantages of		
		policies to reduce uninsured drivers with detailed	
		explanations of them and with appropriate application	
		to context.	
Evaluation -	Evaluation – indicative content		
	• M	lagnitude- depends on size of subsidy/ where	
	maximum price set		
		cost of sussia, to government, promoting	
	ir	information	
	ıI •	 Incidence of subsidy- may benefit producer 	
		nore	
		/hat price should maximum price be set up	
		/hich drivers to target	
		ifferent ways different customers access	
	information		
Level	Marks	Descriptor	
0	0	No evaluative comments.	
1	1-2	For identifying evaluative comments without	
2	3-4	explanation.	
_	3-4	For evaluative comments supported by relevant reasoning.	
3	5-6	For well developed evaluative comments supported by	
		relevant reasoning and clear application to context.	



Question Number	Answer	Mark
	 Knowledge, application and analysis (up to 6 marks) Lower costs (1) Prices likely to fall and output likely to rise (1) Explicit data reference to solar costs €125 Rapid fall in costs may bring about a large change in price (1) Diagram Original equilibrium (1) New equilibrium (1) Shift in supply (1) 	Mark
	P P D D Q Q Q Q Quantity of electricity	(6)
		(6)



Question Number	Answer	Mark
10(b)	Knowledge, application and analysis (up to 4 marks)	
	 Definition of renewable resources-resources that once used and can be used again and again/ability to regenerate/replenish itself indefinitely (1) E.g. wind turbines, solar energy, hydroelectric (1) 	
	 Definition of non-renewable resources-resources that once used cannot be used again (1) E.g. coal, oil, gas (1) 	(4)



Question Number	Answer	Mark
10(c)		(14)
Knowledge,	application and analysis – indicative content	
	 Definition of external costs- costs incurred by third parties 	
	air quality	
	pollution	
	 climate change - people in areas affected by climate change 	
	 examples of third parties affected by external cost e.g. people with respiratory problems which add costs to health problems/visual pollution affecting local residents 	
	 The report says that onshore wind costs roughly €105 per MW/h, compared to gas, €164 and coal €233 Nuclear power, offshore wind and solar energy cost €125. 	
	Diagram	
	P2	
	Marginal private benefits = Marginal social benefits Q1 Qe Quantity	
	 Market failure from external costs such as over-production and under-pricing. 	



Level	Marks	Descriptor	
0	0	A completely inaccurate response.	
1	1-3	Shows some awareness of external costs. Material presented is often irrelevant and lacks organisation. Frequent punctuation and/or grammar errors are likely to be present and the writing is generally unclear.	
2	4-6 Understanding of external costs with some application to context. Material is presented with some relevance but there are likely to be passages which lack proper organisation. Punctuation and/or grammar errors are likely to be present which affect the clarity and coherence.		
3	7-8	Clear understanding of external costs. Effective application to context. Material is presented in a relevant and logical way. Some punctuation and/or grammar errors may be found, but the writing has overall clarity and coherence.	
Evaluation -	Evaluation – indicative content		
	Hard to put value on external costs		
	Shorts term/ long term- impact may worsen if		
	prolonged production		
	-		
	_	nitude- depends on the amount of gas and used	
		cost more to generate power through	
		wables	
		efits' from generating electricity from coal and	
	yas s	such as reliability and employment	
Level	Marks	Descriptor	
1	1-2	For identifying evaluative comments without	
	explanation or for developing one evaluative comme		
2	3-4 For developing evaluative comments supported by son		
		reasoning and application to context.	
3	5-6 For well developed evaluative comments supported by		
		relevant reasoning and clear application to context.	



Question Number	Answer		Mark
10(d)			(10)
Knowledge,		n and analysis – indicative content	
Knowledge,	 Def Ine cha cha e Ela in s cha Ela Spa Der inc Cou pla Der inc abl Abi ela 	inition/ formula of PES- %Δ in Qs/%Δ in Palastic supply- where the proportionate ange in supply is less than the proportionate ange in price stic supply- where the proportionate change supply is greater than the proportionate ange in price stic are electricity sold to Germany and anmark- spare capacity so supply can be reased as price rises antries can store energy in hydroelectric ants. Inmark not operating at full capacity- can rease supply in response to rising prices anmark investing in more production- will be to respond lity to buy from other countries makes more stic as can buy supply from them when eded	
	• €38 exp • €22 ren slov • Tak car • exp exp	elastic 3.3 billion- costs to subsidise renewables- bensive so response might be slower 2.3 billion - costs to subsidise non- lewables- expensive so response might be wer lee some time to build new wind farms- so anot increase electricity straight away. Densive to store, (or storage sites are bensive to build/power lost when arging/discharging) least to store to subsidise renewables.	
	Dia	gram showing PES appropriately drawn	
Level	Marks	Descriptor	
0	0	A completely inaccurate response.	
<u>0</u> 1	1-2	Shows some awareness of PES.	
2	3-4	Understanding of PES linked to fossil fuels.	
3	5-6	Clear understanding of PES linked to fossil fu	ieis.



Evaluation -	Evaluation – indicative content				
	Diff elaRe rec pri	ng run may become more elastic ferent electricity sources may have different esticities lies on weather – little rain, wind, sun may duce the ability to increase supply when ce rises ts for elastic and inelastic can be used as			
	_	A and EV			
Level	Marks	Descriptor			
0	0	No evaluative comments.			
1	1-2	For identifying evaluative comments without explanation.			
2	3-4	For evaluative comments supported by relevant reasoning.			



Question Number	Answer		Mark
10(e)			(14)
Knowledge,	applicati	on and analysis – indicative content	
	Benefits include Onshore wind turbines are cheaper than coal, gas or nuclear energy when external costs like air quality, pollution and climate change are taken into account high winds allowed Denmark to meet all of its electricity needs was able to sell spare electricity to Germany, Norway and Sweden- generating income Denmark could be producing half of its electricity from renewable sources well before 2020 Less external costs from windfarms compared to non-renewables / diagram to illustrate fall in external costs Injection in to economy- creates employment Help lower costs of production Subsidies- will lower costs/ increase supply/ increase quantity/ lower prices May be drawn diagrammatically		
Level	Marks	Descriptor	L
0	0	A completely inaccurate response.	
1	1-3	Shows some awareness of impact of building values farms. Material presented is often irrelevant an organisation or may be confused. Frequent put and/or grammar errors are likely to be present writing is generally unclear.	nd lacks nctuation
2	4-6 Understanding of impact of building wind farms Material is presented with some relevance but there are likely to be passages which lack proper organisation. Punctuation and/or grammar errors are likely to be present which affect the clarity and coherence.		there are sation. to be
3	7-8	Clear understanding of impact of building wind It will be applied effectively to the context. Material is presented in a relevant and logical Some punctuation and/or grammar errors may found, but the writing has overall clarity and context.	way. y be



Evaluation – indicative content			
EVALUATION	Problem Rene Rene gove Can exte Not Magi in wi Meas hear Time dam Relia wind gene onsh com	is include wables are criticised for being too expensive. wable energy took €38.3 billion of criment subsidies in 2012 damage wildlife/ landscape- negative rnality productive when not windy nitude- depends on the size of the investment ndfarms surement- hard to quantify costs/ benefits as d to know how much power it will generate e period- short run- costs of environmental age- long term – cleaner energy production ability of the study suggesting that onshore power was cheaper than fossil fuels in crating electricity. Are all external costs of fore wind power included? Is the study poletely independent? sidies- opportunity costs/ inefficiency	
Level	Marks	Descriptor	
0	0	No evaluative comments.	
1	1-2	For identifying evaluative comments without explanation or for developing one evaluative comment.	
2	3-4	For developing evaluative comments supported by some reasoning and application to context.	
3	5-6	For well developed evaluative comments supported by relevant reasoning and clear application to context.	