Assessment Schedule - 2019

Economics: Demonstrate understanding of producer choices using supply (90985)

Assessment Criteria

Achievement	Achievement with Merit	Achievement with Excellence
 Demonstrate understanding involves: defining, identifying, describing and/or providing an explanation of choices a producer makes in response to a change in either internal or external factors affecting supply identifying, describing, and/or providing an explanation of the flow-on effects for the producer clearly illustrating changes using the supply model. 	 Demonstrate in-depth understanding involves: using the supply model to provide a detailed explanation of choices a producer makes in response to a change in either internal or external factors affecting supply providing a detailed explanation of the flow-on effects for the producer. 	Demonstrate comprehensive understanding involves: Inking detailed explanations of the flow-on effects for the producer, with detailed explanations of choices a producer makes in response to a change in either internal or external factors affecting supply integrating changes in supply into detailed explanations.

NØ	N1	N2	А3	A4	M5	М6	E7	E8
No response; no relevant evidence.	Very little Achievement evidence.	Some Achievement evidence, partial explanations.	Most Achievement evidence, at least one explanation.	Nearly all Achievement evidence.	Some Merit evidence.	Most Merit evidence.	Excellence evidence. One part may be weaker.	All points covered.

NB: Each question should be read as a whole before awarding a grade.

Evidence

Question			Sample	answers/Evidence	9	
ONE	No time period is given.					
(a)	No 'S' occurs at the er	nd of the curve to denote th	at it is one of suppl	y.		
(b)	Las Veges' monthly	supply of cauliflower				
	Price (\$)	Quantity (000)				
	1.00	1				
	1.50	2				
	2.00	3				
	2.50	3.5				
	3.00	5				
	3.50	7				
(c)	Las Veges' supply cur	ve for Cauliflower				
(c)	Price 3.5 (\$/kg) P 3 2.5 P ₁ 2 1.5	ve for Cauliflower				
(c)	Price 3.5 (\$/kg) P 3 2.5 P ₁ 2	2 3 4 5 6	7			
(c)	Price 3.5 (\$/kg) P 3 2.5 P ₁ 2 1.5					

ONE Cont'd (d)	The law of supply says that as the price of cauliflower decreases from \$3 (P) to \$2 (P ₁), the quantity of cauliflower <i>Las Veges</i> supplies each month will decrease from 5000 (Q) to 3000 (Q ₁), assuming the principle of <i>ceteris paribus</i> (i.e. all other factors remaining unchanged). This principle means the price change for cauliflower is the only thing that determines the change in <i>Las Veges</i> ' quantity of cauliflower supplied. Other factors that remain unchanged may include the cost of materials, seedling prices, price of related goods, wage rates.
	As the price of cauliflower decreases, <i>Las Veges</i> is less able to cover the costs of producing/growing cauliflower, such as wages. This means growing/farming cauliflower becomes less profitable for <i>Las Veges</i> because the difference between revenue and costs is reduced. Because it is less profitable at the lower price of \$2, <i>Las Veges</i> will decrease the quantity of cauliflower it supplies.
(e)	Possible flow-on effects include:
	• Since less cauliflower is being grown each month, Las Veges may not need as many employees and may reduce their workers' hours.
	• Las Veges may reduce its seedling-supplies order. This is because it will not need the same volume of seedlings it did when growing more cauliflower.
	• Las Veges may need to refinance its debt if its revenue falls as a result of there being fewer cauliflowers grown. It may be less able to meet its current repayments.
	As a result of cauliflower becoming less profitable to produce, Las Veges might divert some/all resources to the production of a related good (e.g. broccoli), which is relatively more profitable due to having the production expertise and equipment to hand for that vegetable.

Achievement	Achievement with Merit	Achievement with Excellence
 Demonstrates understanding by: completing the supply schedule, accurately identifying one element missing from the graph (i.e. missing S label for supply curve, and no time period is given) 	Detailed explanation that includes : the law of supply and the idea of increased profitability, as well as using data in context describing the principle of <i>ceteris paribus</i> in the context of supply	Comprehensive explanation that includes fully explaining : • the law of supply, referring to lower profitability with revenue and cost • the principle of <i>ceteris paribus</i> with an example
 identifying accurate movement down the supply curve (e.g. dotted lines, labels, arrows) 	fully explaining a flow-on effect. Candidate uses detailed explanations	one flow-on effect. Candidate refers to the changes on the graph and
describing the law of supplydescribing the principle of <i>ceteris paribus</i>		uses correct economic terminology.
explaining a reason for the law of supplyexplaining possible flow-on effect(s).		

Question	Sample answers / Evidence			
TWO (a)	Cauliflower and broccoli are related goods because they require similar resources in their production, such as soil, seedlings, irrigation, agricultural skills of workers. They may also require similar production processes e.g., weeding, harvesting, composting. Therefore, a business may easily swap production between related goods (increase production of the relatively more profitable one), in order to maximise profit.			
(b)	Las Veges' supply of broccoli (per year) Price (S/kg) P, Quantity (units) Las Veges' supply of cauliflower (per year) Price (S/kg) Quantity (units)			

TWO Cont'd (c)	When the price of broccoli increases from P to P ₁ , Las Veges is likely to increase its quantity supplied of broccoli from Q to Q ₁ . This is because it will be more profitable for it to produce broccoli (now that the difference between its revenue and costs of production is now greater). As a result, Las Veges will devote more of its time, machinery and other resources to growing this vegetable. Cauliflower is now relatively less profitable to produce / grow than broccoli, as it has not experienced a similar change in either price or quantity. Las Veges' supply of cauliflower will consequently decrease, and the supply curve will shift to the left, from S to S ₁ .
(d)	Las Veges may, because of the switch in production to broccoli from cauliflower, need to change the supplies ordered so that it has sufficient materials/seedlings to produce more broccoli.
	• Las Veges may, as it prepares to produce more broccoli, need to either hire or buy some different resources, specifically those required for producing broccoli instead of cauliflower
	 Because they are now producing more broccoli, in order to avoid either inefficiencies in production or breakdowns in machinery caused by inexperienced workers, Las Veges may need to provide training on how to use different equipment, or to provide specialist knowledge about broccoli-growing, when the switch to broccoli production from cauliflower occurs.
	 Now that the business wants to attract more customers to buy their broccoli, since they are growing more of it, Las Veges might change its advertising (e.g. imagery, or where the advertising is placed, informational brochures to show ways that you can create delicious food with broccoli). This is because it may not need as many buyers for cauliflower, due to the reduced production, but will want to attract more customers for broccoli.

Achievement	Achievement with Merit	Achievement with Excellence
 Demonstrates understanding by: Defining or explaining the idea of a related good Showing a movement up the broccoli supply curve and shifting the cauliflower supply curve to the left Stating or explaining decrease in supply of cauliflower as broccoli becomes more profitable Stating or explaining a flow-on effect. 	Detailed explanation that includes: correct changes to both graphs with appropriate labelling explaining the decrease in the supply of cauliflower with either the relative profitability idea or the switching of resources fully explaining a flow-on effect. Candidate uses detailed explanations.	Comprehensive explanation that includes fully explaining : • the link between price change and the increased quantity of broccoli/decreased supply of cauliflower. Includes references to relative profitability and switching of resources • a flow-on effect. Candidate refers to changes on the graphs and uses correct economic terminology.

Question			Sample answers / Evidence
THREE			
(a)	Non-price factor	Industry example	
	Environmental	С	
	Technological	В	
	Cost of production	E (given)	
	Restrictions on trade	D	
	Legal	Α	
		•	-
(b)	Las Veges' supply of cau	liflower (monthly)	
	Price (\$/kg)	Quantity (ur	->
(c)	cauliflower, meaning it m for sale as a superior-grade	luce the quantity of cauliflow hay not either grow or ripen placed ded product. Trying to preve	er that Las Veges is willing and able to supply at every price. The heavy rain will damage the roperly. It may also damage the appearance of the vegetable, potentially making it unsuitable nt the damage from heavy rainfall may increase costs of production because it can require ing cauliflower may then be less profitable as Las Veges will have fewer of this vegetable

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrates understanding by: matching some non-price factors to industry examples shifting the supply curve to the left stating that there is a decrease in the supply of cauliflower explaining a link between heavy rainfall and/or crop protection and decreased supply	 Detailed explanation that includes: accurately matching most non-price factors to industry examples showing the shift correctly on the chart with appropriate labelling linking heavy rainfall or crop protection to a decrease in profitability and supply, with an example Candidate uses detailed explanations. 	Comprehensive explanation that includes fully explaining: the link between heavy rainfall and crop protection to a decrease in profitability by referring to revenue, costs and supply, with an example Candidate refers to the changes on the graph and uses correct economic terminology.

Cut Scores

Not Achieved	Achievement	Achievement with Merit	Achievement with Excellence
0 – 6	7 - 12	13 - 18	19 –24