Assessment Schedule - 2017

Economics: Demonstrate understanding of how consumer, producer and / or government choices affect society, using market equilibrium (90986)

Assessment Criteria

Achievement	Achievement with Merit	Achievement with Excellence
 Demonstrate understanding involves: identifying, describing, or providing an explanation of how producer, consumer, and / or government 	Demonstrate in-depth understanding involves: providing a detailed explanation, using the supply and demand model, of how producer, consumer and	Demonstrate comprehensive understanding involves: Inking detailed explanations of how producer, consumer, and / or government choices affect
choices affect market equilibrium identifying, describing, or providing an explanation of	/ or government choices affect market equilibrium • providing a detailed explanation, using the supply	market equilibrium, with detailed explanations of how those changes affect different sectors
how changes in market equilibrium affect different sectors	and demand model, of how changes in market equilibrium affect different sectors.	 integrating changes in supply and demand into detailed explanations.
 clearly illustrating changes using the supply and demand model. 		

Cut Scores

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

Evidence

Question	Sample Evidence	Achievement	Achievement with Merit	Achievement with Excellence	
ONE					
(a) (b)	See Appendix.	Demonstrates understanding	Provides a detailed explanation,	Provides a comprehensive	
(c)	At \$14, there would be a shortage of 6 000 (large) bottles of vitamin C, because the quantity demanded would be 12 000, which is greater than the quantity supplied at 6 000. Consumers would fear missing out and so would bid up the price of bottles of vitamin C.	by: completing schedule accurately plotting points correctly identifying equilibrium point identifying a shortage	 which includes: using data to identify a shortage explaining the shortage, i.e. Q_d > Q_s explaining why price would rise (i.e. vitemin C. consumers) 	 explanation, which includes: fully explaining shortage, using data correctly explaining why price would rise (i.e. vitamin C consumers would fear missing out, so bid the price up) 	
	As the price rises, quantity demanded would fall (from 12 000 to 10 000 bottles), ceteris paribus, as vitamin C would then be less affordable to all consumers. Meanwhile, producers would increase the quantity	 explaining the shortage explaining the rise in price. 	rise (i.e. vitamin C consumers would fear missing out, so bid the price up) using law of demand to	applying law of demand (i.e. as price rises, Q _d falls, ceteris paribus) with links to less	
	supplied of vitamin C (from 6 000 to 10 000 (large) bottles), ceteris paribus, as Vitamin C would then be more profitable. Equilibrium is restored at \$16 (P _e) and 10 000 bottles (Q _e).				explain the restoration of equilibrium using law of supply to explain the restoration of equilibrium. Provides detailed explanations, mostly uses correct data, and in context.
			CONTEXT.	Uses integrated explanations in context, with specific reference to correct data/graph and economic terminology.	

N1	N2	А3	A4	M5	M6	E7	E8
Very little Achievement evidence.	Some Achievement evidence, with partial explanations.	Most Achievement evidence, with at least one explanation.	Nearly all Achievement evidence.	Some Merit evidence.	Most Merit evidence.	Excellence evidence. One part may be weaker.	All points covered.

N0 = No response; no relevant evidence.

Question	Sample Evidence	Achievement	Achievement with Merit	Achievement with Excellence
TWO				
(a) (b)	 The price would fall from \$8 to the maximum price of \$7. This is because \$7 has been set as the highest price per small bottle at which vitamin C is legally allowed to be sold. The quantity demanded would increase from 3 million bottles to 4 million bottles per month. Consumers would be willing and able to buy more because at \$7 a bottle, Vitamin C would then be more affordable. Even though consumers' quantity demanded had increased, their actual consumption would have decreased because the quantity supplied had decreased from 3 million bottles to 2 million bottles. Because only 2 million bottles would have been supplied, consumers would then consume only 2 million bottles of vitamin C. Consumer spending on vitamin C would, therefore, be (2000 000 × \$7) = \$14 000 000, a decrease of \$10 000 000 from (3000 000 × \$8) \$24 000 000. 	Demonstrates understanding by: • labelling Pe and Qe correctly • labelling Qd correctly • labelling shortage correctly • labelling shortage correctly • stating price decreases • identifying - quantity demanded by consumers (before and after) - quantity supplied by producers (before and after) - price received by producers (before and after) - revenue received by producers (before and after) - revenue received by producers (before and after)	Provides a detailed explanation, which includes: • correct labelling of Pe, Qe, Qd, Qs and shortage • identifying - quantity demanded by consumers (before and after) - quantity supplied by producers (before and after) - price received by producers (before and after) - revenue received by producers (before and after) - revenue received by producers (before and after) - which is a supplied and consumer spending that consumer spending decreases since quantity supplied and consumed decreases • explaining flow-on effect(s) on society. Makes some reference to the data from the graph.	Provides a comprehensive explanation, which includes fully explaining: • change in price paid by consumers • change in quantity demanded • change in consumer spending • TWO flow-on effects on society. Makes specific reference to correct data and economic terminology.

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Question	Sample Evidence	Achievement	Achievement with Merit	Achievement with Excellence
Two (d)	Possible flow-on effects:			
	black market might develop – some producers would illegally sell vitamin C at a price higher than maximum price, as some consumers would be willing and able to pay a higher price to obtain the limited quantities			
	 some consumers would miss out, as Q_d is greater than Q_s. Consumers might switch to other substitutes, such as fruit or Echinacea (or other vitamin supplement) 			
	rationing might happen – consumers are limited to a certain amount of vitamin C			
	producers might switch to other more profitable products / vitamins (or related goods)			
	more people might get sick because they can't obtain vitamin C.			

N1	N2	А3	A4	M5	М6	E7	E8
Very little Achievement evidence.	Some Achievement evidence, with partial explanations.	Most Achievement evidence, with at least one explanation.	Nearly all Achievement evidence.	Some Merit evidence.	Most Merit evidence.	Excellence evidence. One part may be weaker.	All points covered.

N0 = No response; no relevant evidence.

Question	Sample Evidence	Achievement	Achievement with Merit	Achievement with Excellence
THREE				
(a) (b)	See Appendix. The immediate financial effect on the government is that it would have to pay (\$20 × 100 000) \$2 000 000 each year towards subsidising the flu vaccine. Possible long-term benefits for society	Demonstrates understanding by: • shifting the supply curve to the right correctly • labelling the original equilibrium price and quantity	Provides a detailed explanation, which includes: • shifting the supply curve to the right correctly, and identifying the original and new equilibrium points	Provides a comprehensive explanation, which includes: • fully explaining the change in price to producers, and the effect on producers' revenue (with calculations).
	 A healthier society, so less money needed to be spent on health care Life expectancy would increase because fewer people would be getting sick Less money spent on other areas of government spending such as education, roading, etc Fewer workers calling in sick to work, so producers could have less sick leave / decrease costs of production Increased productivity because workers would be less likely to have sick leave Fewer children missing school, improving life outcomes. 	 labelling the new equilibrium price and quantity identifying the immediate financial effect of the subsidy on the government explaining ONE possible long-term benefit to society identifying the change in price received by producers explaining the change in producer revenue. 	 AND some of: explaining the immediate financial effect of the subsidy on the government fully explaining ONE possible long-term benefit to society explaining shift of supply curve to the right and the effect on equilibrium quantity fully explaining the change in producer revenue. Makes some reference to data from the graph. 	fully explaining the shift of the supply curve to the right and the effect on equilibrium quantity. Uses integrated explanations in context, and uses correct data and economic terminology.
(d)	 The subsidy would increase producers' revenue, which would increase producers' supply of flu vaccine. This would increase the quantity supplied of flu vaccines at each and every price. This is shown by shifting the supply curve to the right to \$1\$ and would result in an increase in equilibrium quantity from 90 000 vaccines to 100 000 vaccines. Producers would then be receiving an increase of \$10 per vaccine (an increase from \$50 to \$60 per vaccine), meaning producers' revenue would then increase from (\$50 × 90 000) \$4 500 000 to (\$60 × 100 000) \$6 000 000. The total increase in producer revenue would be \$1 500 000. 			

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N1	N2	А3	A4	M5	M6	E7	E8
Very little Achievement evidence.	Some Achievement evidence, with partial explanations.	Most Achievement evidence, with at least one explanation.	Nearly all Achievement evidence.	Some Merit evidence.	Most Merit evidence.	Excellence evidence. One part may be weaker.	All points covered.

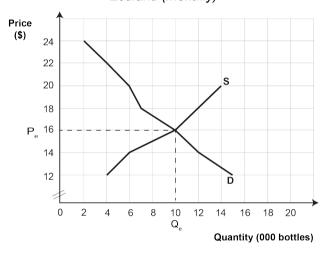
N0 = No response; no relevant evidence.

Appendix

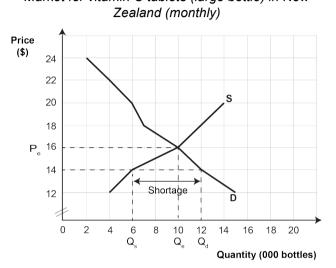
Market demand for vitamin C tablets (large bottle) in New Zealand (monthly)

	To the desired (Tree land)					
Price (\$)	South Island (000s)	North Island (000s)	Market demand (000s)			
24.00	0.5	1.5	2			
22.00	1	3	4			
20.00	2	4	6			
18.00	3	4	7			
16.00	4.5	5.5	10			
14.00	5.3	6.7	12			
12.00	7	8	15			

Market for vitamin C tablets (large bottle) in New Zealand (monthly)

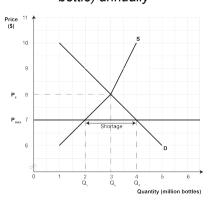


Question One (b) Market for vitamin C tablets (large bottle) in New





New Zealand market for vitamin C (small bottle) annually



Question Two (b)

Question One (a)

	Before maximum price	After maximum price
Quantity demanded by consumers	3 million (small bottles)	4 million (small bottles)
Quantity supplied by producers	3 million (small bottles)	2 million (small bottles)
Price received by producers	\$8	\$7
Revenue received by producers	\$8 × 3 000 000 = \$24 000 000	\$7 × 2 000 000 = \$14 000 000

Question Three (a)

New Zealand market for flu vaccines (annually)

