

EUNOIA JUNIOR COLLEGE JC2 Preliminary Examination 2022 General Certificate of Education Advanced Level Higher 2

**ECONOMICS** 

Paper 1 Case Studies

9757/01

12 September 2022 2 hours 15 minutes

Additional Materials: Answer Booklet

#### **READ THESE INSTRUCTIONS FIRST**

An answer booklet will be provided with this question paper. You should follow the instructions on the front cover of the answer booklet. If you need additional answer paper ask the invigilator for a continuation booklet.

Answer all questions.

The number of marks is given in brackets [ ] at the end of each question or part question.

Please note that Paper 1 takes up 40% of the total score.

This document consists of 8 printed pages.

[Turn over

#### **Question 1: Water stress**

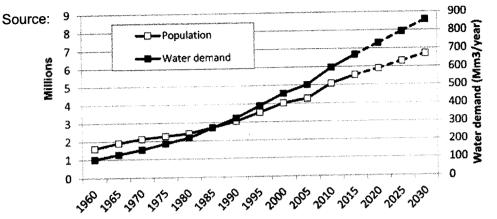


Figure 1: Population and water demand in Singapore

Environmental Science: Water Research & Technology, September 2015

#### Extract 1: Singapore's water pricing strategy

Often, the price of water reflects its market value. On one hand, this price is indicative of the utility that consumers accord to it. Hence, upward revising of Singapore water price is an important and effective mechanism to reflect the scarcity value of water. On the other hand, water is priced to incorporate the higher cost of producing water from unconventional sources, specifically NEWater and desalinated water. The rising water price goes towards meeting the cost of water treatment, reservoir operations, NEWater production, desalination, used water collection and treatment, as well as the maintenance and expansion of the island-wide network of water pipelines. It is estimated that a rise in price of water by 30% will lead to higher water bills for the average household from \$37.50 to \$50 a month.

Adapted: Public Utilities Board, Water Price Revision, 2017

#### Extract 2: Singapore's water crisis

Singapore is one of the most water-scarce countries in the world. She is the fifth most likely country in the world to face extremely high water stress by 2040. Singapore is heavily dependent on rainfall due to the lack of natural water resources.

Prolonged dry spells cause or threaten to cause water shortages, as limited land is available for water storage facilities. Coupled with rising demand for industrial and residential purposes, the pressure is on to find alternative sources of water.

Unfortunately, the nature of water production necessitates the need for long-term heavy investments in infrastructure, such as the network of pipes, in addition to water treatment facilities. As such, producers may not be able to respond quickly to changes in demand. Scarce supplies of water also have a significant financial and economic impact. Corporates across all sectors are also increasingly facing financial risk from lack of investment in addressing water risks.

Source: Centre for Liveable Cities accessed 2022 and Reuters 7 June 2019

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#### Extract 3: Water industry in different countries

Water management is the control and movement of water resources. It includes various activities like proper planning, efficient distribution, and optimal use of water resources so that it can meet current and future needs. The nature of the industry necessitates the need for heavy investment into infrastructure, such as the network of pipes, in addition to water treatment facilities. This means that a substantial part of the cost of supplying water services is a fixed cost.

#### Singapore

Singapore's entire water cycle is managed by the Public Utilities Board (PUB), Singapore's national water agency. PUB is perhaps one of the best-run utilities in East Asia and the world. Over the years, PUB has shown impressive performance improvements. Clear and measurable targets are set for drinking water quality, customer service, and financial performance. The provision of Public Utilities Act for PUB's financial performance states that its total revenues must be sufficient to meet its obligations, including depreciation and interest on capital and a reasonable proportion of the cost of infrastructure development.

#### England

Decades of underinvestment by successive governments has led to poor water quality, polluted rivers and beaches badly affected by sewage. Simply put, the water industry was not high up the list of priorities for Ministers when its funding came out of the same pot as the money for schools, hospitals and police officers.

But since privatisation, investment of nearly £160 billion has seen a strong and steady improvement in the industry, with customers now enjoying access to world-class drinking water. Having privatised the water industry, there are currently 23 private regional water companies in England and Wales. Two of the leading water utilities in the UK are Thames Water and United Utilities.

Despite the benefits that privatisation was purported to bring, research has shown that privatisation brought higher prices and lower investment in water infrastructure. At times, there was blatant disregard for environmental damages, such as when Thames Water was fined £20.3m in fines and costs in 2017, for a series of significant pollution incidents on the River Thames.

Adapted from: Various

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[Turn over

#### Questions

(a)	Why usag	might the changes shown in Figure 1 lead to an increase in per capita water le in Singapore from 1960 to 2015?	[2]
(b)	Expl on th	ain how a consumer can make use of the concept of price and utility in deciding ne amount of water to consume.	[2]
(c)	With have	reference to Figure 1 and Extract 1, discuss whether demand or supply factors a greater impact on the market for water.	[8]
(d)	'Sing thre	gapore is one of the most water-scarce countriesProlonged dry spells cause or aten to cause water shortages' (Extract 2)	
	Exp	ain what is meant by 'scarcity' and 'shortage'.	[4]
(e)	(i)	Identify and explain the type of market structure operating in the Singapore water industry.	[4]
	(ii)	'With water scarcity looming, governments throughout the world have prioritised water management.'	
		Discuss why some countries choose to nationalise water management while others have chosen to privatise it.	[10]
		[To	tal: 30]

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#### Question 2: Slowbalisation – the Endgame of Globalisation?

#### **Extract 4: What is Slowbalisation?**

Slowbalisation is a phenomenon which involves a slowing down of the pace of global integration.

In recent decades globalisation has become so dominant, that we often assume the process is never-ending. Between 1970 and 2008, world exports as a share of GDP rose from 13% to 31%, and it seemed that globalisation was an unstoppable force. However, since 2008, something unexpected has happened. Exports as a share of GDP has flatlined and even started to fall. Other metrics show a similar fate, a fall in global bank loans, foreign direct investment has fallen quite sharply, and multinationals share of profit has decreased.

Source: economicshelp.org, accessed 11 August 2022

#### Table 1: Imports of goods and services (% of GDP)

	2016	2017	2018	2019	2020
US	14.6	15.0	15.2	14.5	13.2
<u>China</u>	17.3	17.9	18.4	17.4	16.0
Singapore	138.5	144.9	147.7	146.5	150.0
World	26.6	27.5	28.5	27.7	25.5

Source: World Bank national accounts data, accessed 11 August 2022

Table 2: Expo	orts of goods	and services	(% of GDP)
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	2016	2017	2018	2019	2020
US	11.9	12.2	12.3	11.7	10.1
China	19.5	19.6	19.1	18.4	18.5
Singapore	164.7	171.3	176.5	175.2	181.7
World	27.3	28.2	29.1	28.2	26.3

Source: World Bank national accounts data, accessed 11 August 2022

	2016	2017	2018	2019	2020
US	2.54	1.95	1.04	1.41	1.01
China	1.55	1.35	1.69	1.31	1.72
Singapore	20.5	28.9	21.5	29.6	21.6
World	3.53	2.67	1.05	1.68	1.44

Source: World Bank national accounts data, accessed 11 August 2022

#### Extract 5: Trump prods General Motors over its auto plants in China

The world has seen a shift in their approach towards globalisation. US President Donald Trump, who is engaged in a trade war with Beijing, said on Friday that the largest US automaker, General Motors (GM), should begin moving its operations back to the US.

'General Motors, which was once the Giant of Detroit, is now one of the smallest auto manufacturers there. They moved major plants to China, BEFORE I CAME INTO OFFICE. This was done despite the help given to them by the US. Now they should start moving back to America again?' Trump said in a post on Twitter.

He refers to a Bloomberg News story that reported GM's hourly workforce of 46,000 US workers has fallen behind that of Fiat Chrysler as the smallest of the Detroit Three automakers. Over the past four decades, GM has dramatically cut the size of its overall US workforce, which numbered nearly 620,000 in 1979. GM's decision to close four plants in the United States is a central issue in the contract talks.

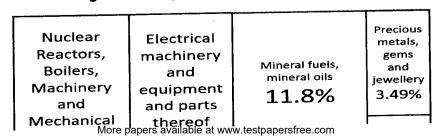
Trump has made boosting auto jobs a key priority and has often attacked automakers on Twitter for not doing enough to boost US employment. China is the world's largest auto market, and its government policy favours automakers assembling vehicles there, and not importing them from overseas.

Source: Reuters, 4 May 2020

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11.3%	4	etc .28%		oarel 9%	iron or steel articles 1.6%

#### Figure 2: Composition of US Imports (2020)

Adapted from oec.world, accessed 12 August 2022



#### Figure 3: Composition of US Exports (2020)

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Adapted: oec.world, accessed 12 August 2022

#### Extract 6: The great manufacturing shift out of China

Over the past four years, the United States have been discouraging imports to safeguard and return jobs back home. From the Chinese perspective, however, this is a strategic shift whereby China switches its focus from economic growth to economic control. To that end, it is pursuing three key objectives: (1) eliminating its dependence on foreign countries and corporations for critical technology and products; (2) facilitating the dominance of domestic firms; and (3) leveraging that dominance into global competitiveness.

It's not just economic ties between China and the US that are in danger. Europe, too, is increasingly talking of rolling back the deep trade and investment ties it has developed with Beijing in recent decades as well as its Brexit departure from the European Union (EU). Perhaps today's unprecedented level of economic integration has gone too far, bringing more pain and less gain.

How will China respond? In some ways, China has launched a campaign to develop more advanced technologies at home and rely less on US and other Western suppliers. Of late, many Chinese firms have proved adept at surviving the fallout with the US — Huawei, for example, once relied on US firms for many of the components of its smartphones but now thrives without. Still, China's quest to bolster its own capacity for innovation and to become a leader in advanced technologies relies on easy access to firms and researchers around the world, and it doesn't want to see those connections severed entirely. At the same time, with an already-slowing economy hammered by the pandemic this year, China will likely do what it can to ease the economic tensions with the US.

Adapted: Foreign Policy, 14 May 2020; HBR, May 2021

#### Extract 7: FTAs and globalisation critical to Singapore's survival

Embracing globalisation is critical to Singapore's survival and pursuing free trade agreements (FTAs) are key to the country's existence, said Health Minister Ong Ye Kung.

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Singapore is also growing into a centre for technology, research and development, with many global tech firms choosing the country to set up their regional or global innovation centres, he said. Singapore's network of FTAs is not just a major selling point for the Government to persuade investors to come and do business, but is also fundamentally important to the country because it needs the world to "earn a living", he added.

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FTAs are especially important to small and medium-sized enterprises (SMEs) because they free these businesses from being constrained by Singapore's small domestic market and give them access to overseas customers. The country's investments overseas have increased five times, from \$200 billion in 2005 to more than \$930 billion in 2019, he added.

FTAs also require governments to protect foreign investments and ensure that regulations are imposed fairly and equally on both local and foreign companies. They also set standards to protect intellectual property. These agreements also help local companies that are expanding overseas because they hope that Singapore can negotiate similar protections for them in overseas markets.

Source: The Straits Times, 6 July 2021

#### Questions

(a)	With adva	reference to Figures 2 and 3, explain one reason why the theory of comparative antage may not be applicable to US and its trade partners.	[2]
(b)	With	reference to Tables 1 to 3:	
	(i)	What evidence is there to suggest that globalisation has slowed down over the period between 2016-2020?	[2]
	(ii)	Explain whether the size of Singapore's multiplier is likely to be small or large and identify <b>one</b> difficulty in using the given data to determine it.	[3]
(c)	(i)	With the aid of a diagram, explain how President Trump's push for GM to move operations back to the US will improve its labour market.	[3]
	(ii)	Suggest one possible reason why it may be difficult for the US government to accurately calculate its unemployment rate.	[2]
(d)	(i)	Using AD/AS analysis, discuss whether the exit of global manufacturing firms from China brings about more opportunities than threats to the Chinese economy.	[8]
	(ii)	Singapore is actively signing FTAs with more countries to diversify trade risk.	
		Discuss whether the above policy is the most effective option for China to mitigate the costs of slowbalisation.	[10]

[Total: 30]

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EUNOIA JUNIOR COLLEGE JC2 Preliminary Examination 2022 General Certificate of Education Advanced Level Higher 2

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ECONOMICS

Paper 2 Essays

9757/02

16 September 2022 2 hours 15 minutes

Additional Materials: Answer Booklet

#### **READ THESE INSTRUCTIONS FIRST**

An answer booklet will be provided with this question paper. You should follow the instructions on the front cover of the answer booklet. If you need additional answer paper ask the invigilator for a continuation booklet.

Answer **three** questions in total, of which **one** must be from Section A, **one** from Section B and **one** from **either** Section A or Section B.

The number of marks is given in brackets [ ] at the end of each question or part question.

Please note that Paper 2 takes up 60% of the total score.

This document consists of 3 printed pages and 1 blank page.

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#### Answer three questions in total.

#### Section A

#### One or two of your three chosen questions must be from this section.

- 1 Health insurance protects consumers against the risk of expensive and unanticipated medical treatment. However, the elderly may not adequately insure themselves as they may downplay the need for medical attention. Moreover, insurance premiums, which reflect the risk that individuals have, can be prohibitively high for the elderly, resulting in a situation of adverse selection.
  - (a) Explain how imperfect information can lead to underconsumption of health insurance for the elderly. [10]
  - (b) Discuss possible measures that could be adopted to increase consumption of health insurance for the elderly. [15]
- 2 When production exceeds consumption in a free market, a drop in price will normally restore equilibrium. However, in the case of an agricultural product like corn, high price floors are set by governments to protect the income of farmers.

Source: www.tandfonline.com, accessed 17 August 2022

- (a) Explain why a surplus of agricultural product like corn might exist and why a fall in price cannot eradicate the surplus. [10]
- (b) Discuss the alternative policies that could be adopted by a government to address future surpluses. [15]
- **3** Sembcorp Solar Singapore manufactures solar energy equipment. In 2021, the firm embarked on building solar panel systems across 1,154 rooftops in Singapore. With Singapore's commitment towards sustainability, the firm's emphasis on process innovation has positioned it well to further boost its profits.
  - (a) Explain how Sembcorp Solar Singapore arrived at its output decision to build solar panel systems for 1,154 rooftops. [10]
  - (b) Discuss whether process innovation is the best strategy for Sembcorp Solar Singapore to increase its profits. [15]

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#### 4

#### Section B

One or two of your three chosen questions must be from this section.

- 4 The US Federal Reserve cut interest rates to essentially zero to shelter the economy from the effects of COVID-19, such as falling prices and rising unemployment. This policy will be maintained until the economy is on track to achieve its economic goals.
  - (a) Explain why the cut in interest rates is instrumental in achieving low unemployment in the US.
  - [10](b) Assess whether maintaining low interest rates, on balance, will allow the US to attain price stability.
- **5** The COVID-19 pandemic has resulted in Singapore introducing circuit breaker measures, which include a stay-at-home order coupled with international border closures. The government introduced a Job Support Scheme to offset labour costs for affected industries such as the aviation and tourism sectors.
  - (a) Explain how circuit breaker measures might have consequences on Singapore's aggregate demand and aggregate supply. [10]
  - (b) Singapore has a high Gini coefficient.

Discuss whether inclusive growth remains a macroeconomic priority during an economic downturn.

- [15]
- 6 Australia achieved a record high trade surplus of over A\$75 billion in 2020. This is commendable despite China, its biggest trade partner, imposing trade restrictions on Australia like a quota on cotton. One reason for the trade surplus was strong prices for Australia's main exports like agricultural products and iron ores.
  - (a) Explain how Chinese import quotas will affect Chinese cotton producers and consumers and its effect on Australia's balance of trade. [10]
  - (b) Discuss whether net exporters like Australia should pursue free trade at all costs. [15]

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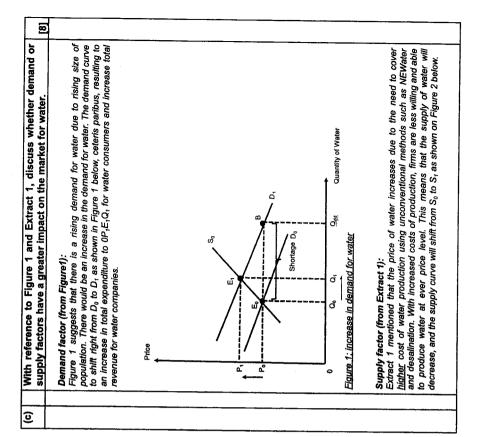
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## 2022 JC2 H2 Prelims Paper 1 SAMS

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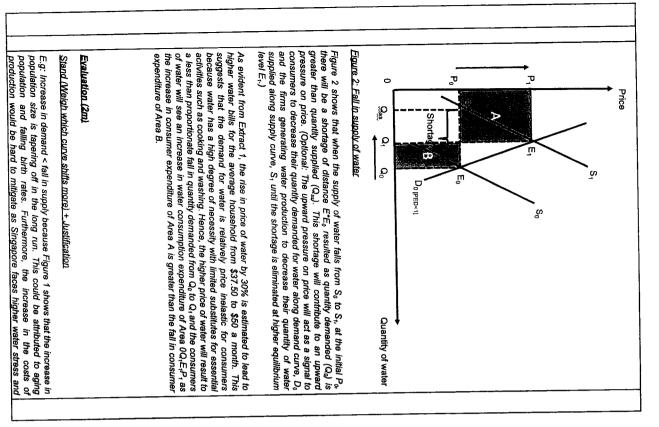
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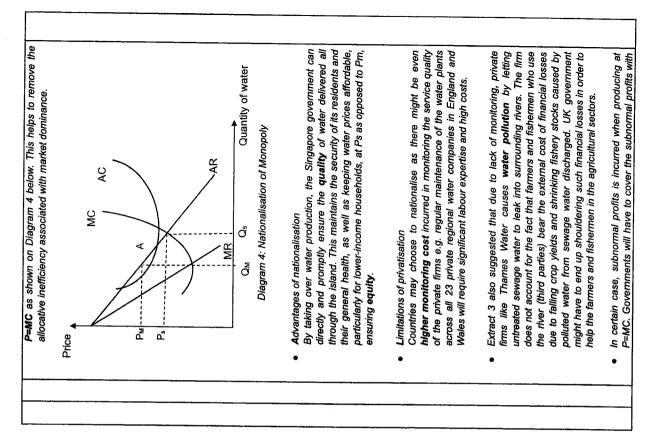
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Incurs higher costs of production when investing in new intrastructure and the echnology.         Notes:         o       Evaluative marks are awarded as long as there is some well-contextualised justification that covers the <u>extent</u> of the increase in the demand and/or the fall in the supply.         o       Alternative approaches to evaluation are accepted. For example, evaluative marks are awarded when students considered the impact on the extent of the increase in price of water. If demand is price-inelastic, (this is relevant only when the supply changes), so the key issue addressed is whether the inelasticity of demand has greater impact in this case or the shift in supply.         Level of response and descriptors         12       Good analysis of outcomes of water price on equilibrium price, equiption and factor) and Extreact 1 (supply factor), supported with good linkages to economic theories.         L1       L2: 6m requires use of case evidence and diagrammatic interpretations, PAP explanation and application of PED analysis.         L1       Listing of theories with little to no reference to extract materials         L2:       Some attempt.       1-3         Evaluation       2-3         parameters.       1-3         L1       Some interpret.       2-3         12       Some attempt to justify a stand       1									
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(q)		'Singapore is one of the most water-scarce countriesProlonged dry spells cause or threaten to cause water shortages' (Extract 2) Evolain what is most by 'constitution' of the deviced	5
		Water scarcity refers to a finite number of natural resources (e.g., river and groundwater drying out) that are unable to meet unlimited wants, perficultative memory with other accountation	4
		Water shortage refers to a very high demand for water and a decrease in Water shortage refers to a very high demand for water and a decrease in supply. As a result, there was a water shortage since the quantity demanded for water exceeded the quantity supplied at a specified price.	
(e)	9	Identify and explain the type of market structure operating in the Singapore water industry	
		Singapore water Industry. Sinnanne water industry is likolit societine liko s monarti TLis is	<u>च</u>
-		Dirigatore water industry is intery operating life a monopoly. In is because Extract 3 mentioned that there is only one dominant water firm in Singapore that is the Public Utilities Board (PUB). PUB is operating	
		use a monopoly due to nign natural and artificial barriers to entry into this industry. Examples of natural barriers to entry include financial BTE such as the higher start-up/sunk costs of installing underground water pipes to	
		supply water to all parts of Singapore. Moreover, such high fixed costs meant that internal EOS (lower unit costs) are enjoyed by the dominant firm which produces on a larger scale of production. This would deter new	
		firms from entering as they need to incur high capital outlay and they might not be able to match the low unit costs of PUB.	
		(Examples of artificial barriers to entry are also accepted and these include high licensing and certification costs to ensure the safety of the water for consumption.)	
	۹	'With water scarcity looming, governments throughout the world have prioritised water management.'	
			[10]
		tionalise water	
		Nationalisation refers to government taking over ownership of certain industries. For example, Singapore government chose to take over control	
		or key industries such as water supply. Inis is to prevent the provision of such essential services to be subjected to the private firm's profit-maximising behaviour.	
		<ul> <li>How nationalisation works With government ownership, the objective changes from profit-maximising to that of welfare-maximising. Hence, the government bases its price and output decision on maximising</li> </ul>	
		efficiency and equity. For example, a government might choose to produce water at the socially optimal quantity, Q <sub>s</sub> , where	



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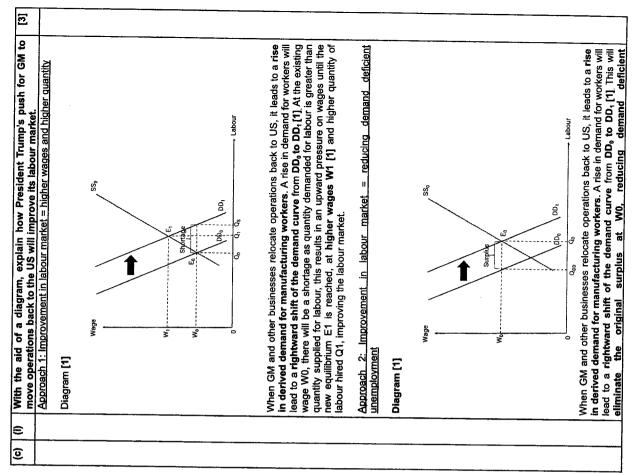
	either country's choice of policy.	-
د. 	E1 Some attempt to justify a stand with the interpretation of	
	the policies.	-
	considerat	
2-3	E2 Justified stand with reference to extract, with	
	Evaluation	
	privatisation	-
	Well-explained reasons on either nationalisation OR	
	materials	
1-4	L1 Listing of theories with little to no reference to extract	
	interpretations	-
	Requires use of case evidence and diagrammatic	
	good linkages to economic theories.	
 	t nationalisation AND xtracts, supported with	
	built-up and well established by private entities.	1
n tully	expert team and the water pipe across the country has been fully	
S OWN	and nationalise them after the government has built up its own	
∍ over	privatising its water services, the government may opt to take over	
WOIL S	equity and consumer surplus. As a result, while the on is now	



#### CSQ 2

2 and 3, explain one reason why the ot be applicable to US and its trade partners antage (CA) states that countries should spec a relatively lower opportunity cost. In produ y have relatively lower opportunity cost. If ferent goods and services. [1] ferent goods and services. [1] and nuclear reactors as given by their relative si and nuclear reactors as given by their relative si and nuclear reactors as given by their relative si thra-industry trade has occurred, hence theory at onuclear reactors as given by their relative si thra-industry trade has occurred, hence theory at onuclear reactors as given by their relative si to suggest that globalisation has slowed c to suggest that globalisation has slowed c at of 51.8%. [1] by to 51.8%. [1] at o file of the size of world G if from 3.53% to 1.44% [1] at o file of the size of world G if from 3.53% to 1.44% [1] at o file of the small [1] moorts of goods and services as percentage withdraw (MPW), which consists of MPM, file of multiplier will be small. [1] as of the formation from Tables 1 to 3 to deter at of information from Tables 1 to 3 to deter at of thermine the size of marginal propen- bensity to save, which could affect the size of power is large. GDP because this is of trather than the marginal propen- bensity to save, which could affect the size of the formation from Tables 1 to inport. at the multiplier will be small. [1] at the size of marginal propen- bensity to save, which could affect the size of the formation from Tables 1 to inport. at the multiplier will be small. [1] but the formation from Tables 1 to inport. at the multiplier will be small. [1] at the formation from Tables 1 to inport. at a strate is a s of GDP because this is on trather than the marginal propen- benefity to save, which could affect the size of marginal propen- benefity to save, which could affect the size of marginal propen- benefity to save, which could affect the siz	017 of [2]	a <b>-</b> 4	[2]		2			
	With reference to Figures 2 and 3, explain one reason why the theory comparative advantage may not be applicable to US and its trade partners. The theory of comparative advantage (CA) states that countries should specialize and export goods they have a relatively lower opportunity cost in production, while importing goods that they have relatively higher opportunity cost. Hence US should export and import different goods and services. [1]	However, from Figures 2 and 3, US is <b>importing and exporting goods the same goods</b> , for example vehicles and nuclear reactors as given by their <b>relative similar percentage</b> . This shows that intra-industry trade has occurred, hence theory of CA may not be applicable. [1]	<ul> <li>What evidence is there to suggest that globalisation has slowed down over the period between 2016-20207</li> </ul>	The <b>total trade as a percentage</b> of world GDP has failen - From Tables 1 and 2, the figure fell from <b>53.9% to 51.8%.</b> [1] There is a <b>fall in net inflow of world FDI as a percentage</b> of world GDP – From Table 3, the figure fell from <b>3.53% to 1.44%</b> [1]		As seen in Table 2, the <b>imports of goods and services as percentage of GDP</b> is <b>large</b> (above 100%). This could imply that the marginal propensity to import ( <b>MPM</b> ) for Singapore is large. Given that the multiplier is k = 1/marginal propensity to withdraw ( <b>MPW</b> ), which consists of MPM, it is therefore likely that the size of multiplier will be small. [1]	One difficulty would be a lack of information from Tables 1 to 3 to determine the other components of MPW, for example savings and tax rates for Singapore which can be used to determine the size of marginal propensity to tax and marginal propensity to save, which could affect the size of the multiplier as well. [1]	Alternatively: It will <b>not be accurate</b> to use imports as a % of GDP because this is the average propensity to import rather than the marginal propensity to import.

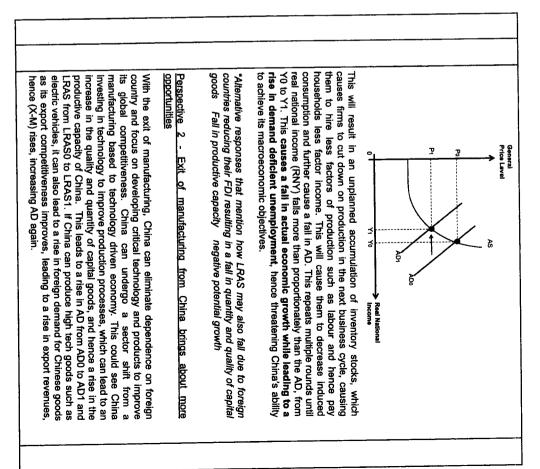
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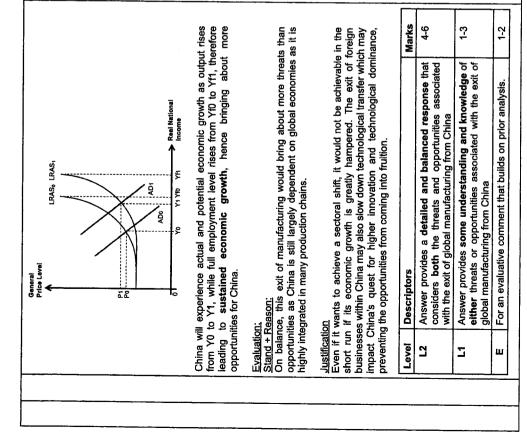


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					_			3					)	
Perspective 1 - Exit As more internation to their own home of Chinese economy. which is a compo experience a fall in .	Introduction: The exit of global manufi negative impacts on the assess the opportunities policies are required.	End Point	Start Point	Context	Content	Command	Question Analysis	Using AD/AS analy firms from China Chinese economy.	<ul> <li>Underemployment</li> <li>Statistical limitation US</li> </ul>	Accept any other plausible reason for e.g: Lagging indicator Discouraged workers that have lef Dynamic pool of participants in lab	It may not be cal employment which [1]	Unemployment rate is labour force x 100% [1]	Suggest one poss government to accu	hence improving the labour market.
Perspective 1 - Exit of manufacturing from China brings about more threats As more international manufacturing businesses exit China and relocate back to their own home country, this would result in a fall in FDI inflow towards the Chinese economy. China will therefore experience a fall in investment (I), which is a component of aggregate demand (AD). Therefore, China will experience a fall in AD from AD0 to AD1 as seen in the diagram below.	Introduction: The exit of global manufacturing firms can bring about both positive and negative impacts on the macroeconomic objectives, the government must assess the opportunities and threats to determine whether government policies are required.	Positive and Negative impacts (BUGP) for China	Global manufacturing firms exiting from China	Chinese Economy	AD/AS	Discuss – 2 Sided + Evaluation	Description	analysis, discuss whether the exit of global manufacturing hina brings about more opportunities than threats to the omy.	Underemployment Statistical limitations and errors especially for a large country like the US	any other plausible reason for e.g: Lagging indicator Discouraged workers that have left the labour force not accounted for Dynamic pool of participants in labour force	It may not be calculated accurately due <b>to unreported and illegal</b> <b>employment</b> which causes the unemployment number to be miscalculated. [1]	Unemployment rate is calculated by: total number of unemployedrotal labour force x 100% [1]	Suggest one possible reason why it may be difficult for the US government to accurately calculate its unemployment rate.	hence improving the labour market.
<u></u>								8		<u> </u>			[2]	

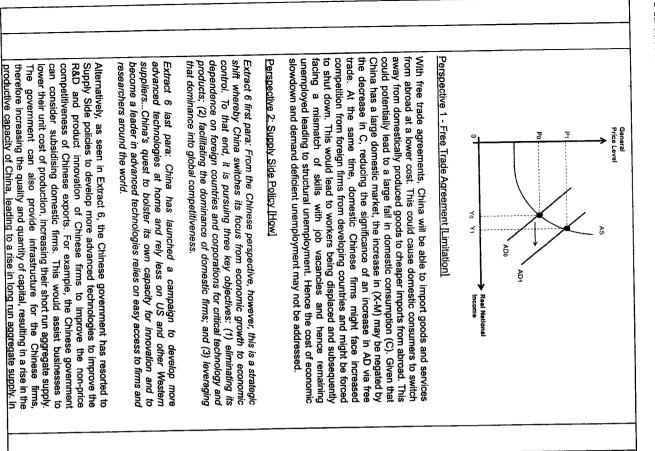


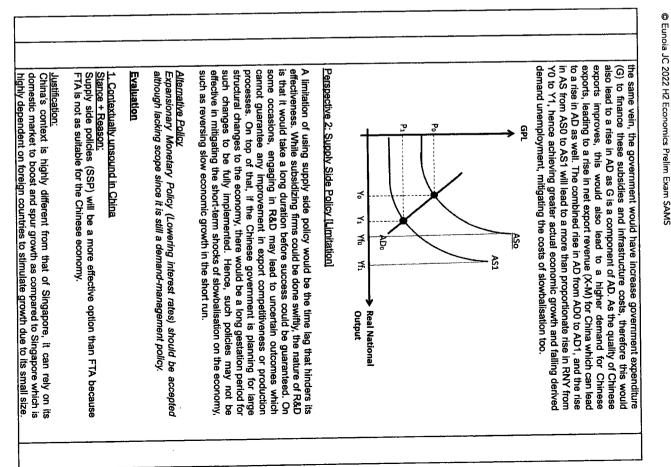


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		Singapore is activ risk.	Singapore is actively signing FTAs with more countries to diversify trade risk.	
		Discuss whether the above policy i mitigate the costs of slowbalisation.	Discuss whether the above policy is the most effective option for China to mitigate the costs of slowbalisation.	[10]
		Command	Description Discuss – 2 Sided + Evaluation	
		Content	Macroeconomic policies - FTA Sumply Side Policy	
		Context	Chinese economy	
		Start Point	Slowbalisation – Slowdown in trade and investment flows	
		End Point	Whether FTA can reverse negative economic growth	
		Question Analysis		
		Introduction - Contex	Introduction - Context of the negative impact of Slowballsation on China	
		The negative consequences of slc economic growth and possible demic foreign direct investments (FDI) sl various policies to mitigate the actrements and surphy side policies	The negative consequences of slowbalisation would result in poor actual economic growth and possible demand deficient unemployment as trade and foreign direct investments (FDI) slow down. Hence China must consider various policies to mitigate the negative impacts, namely free trade and surphy side noticies.	
		The Chinese governi more countries to en	<u>reuspective 1 - Free Trade Adreement (How)</u> The Chinese government can seek to sign more free trade agreements with More Countries to enhance trade and investment from vio the concerted	
		preferential access to ce Property (IP) protection	proceedings of the second and investment now via tarm concessions, Propertial access to certain sectors, faster entry into markets and Intellectual Property (IP) invited into a second and intellectual	
		<ul> <li>With FTAs, Chin.</li> <li>partners will also</li> </ul>	berg (in Francescon) With FTax, China will be removing tariffs on imports while its trading patthers will also be removing tariffs on Chinese events. This would have	
		to a fall in the rela will lead to a m	to a fall in the relative prices of Chinese exports, assuming PEDX >1, this will lead to a more than proportionate rise in guantity demanded for	
		<ul> <li>Chinese exports, I</li> <li>At the same time</li> </ul>	Chinese exports, leading to a rise in export revenue, a during using the same time, with more FTas, this would lead to a rise in Chinese At the same time.	
			exports to more countries due to a larger foreign consumer base. This can lead to a rise in damand for Chinese coverstrip to bath internet base.	
		to a rise in China's	to a rise in China's net export revenue.	
	· · · · ·	This would reverse the from AD0 to AD1. The	This would reverse the trend of slowbalisation leading to an increase in AD, from AD0 to AD1. This leads to an unplanned shortfall of inventory stocks.	<u> </u>
		hence firms will step factors of production	hence firms will step up production in the next business cycle, hiring more factors of production and hence increase factor payment, leading to a rise in	
		induced spending. It increases more than economic prowth from	induced spending. This will occur multiple rounds as real national income increases more than proportionately to the initial rise in AD achieving actual	-
		demand for labour, unemployment at the s	occurrence growin norm for ot in t. As output nees, mere is a greater derived with the second for tabour, hence this will lead to a fall in demand deficient unemployment at the same time. hence mitication the costs of slowhelication	
-				

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Marks Even with the use of FTA, it is difficult to sway the decision of political leaders from the US to allow manufacturing to remain in China. Also, it is difficult for China to protect intellectual property and enforce regulation fairly and equally across the entire country as compared to Singapore, which is one prerequisite Therefore, SSP will be more effective in reshaping and restructuring China towards its goal of bolstering its own capacity for innovation and to become a Supply side policies (SSP) will be a more effective option because of China's 5-7 4 23 spurring demand for its higher quality exports back in a world undergoing <u>Justification:</u> Slowbalisation has exposed China to risks arising from global slowdown in trade and investment due its reliance on world trade and FDI. Hence it is more and internationally and, in the process, improve its global competitiveness. This is done via supply side policies which can lead to structural changes in the long dominant country in producing high tech goods and services, securing leader in advanced technologies, making exports that are highly competitive, vital for China to focus on developing critical technology and high-quality run that disrupt existing global trade pattern and establish itself as the 2. China's aim to shift focus away from economic growth to economic control sustained economic growth in the long run via effective supply side policies. products which allows its domestic firms to grow domestically Answers will consider at least two policies. Limitations of ⊒.af Answers will consider at least FTA or an alternative policy. well-reasoned judgments on whether FTA is appropriate arrive aim to focus on economic control rather than economic growth. For an evaluation / judgment that is unsubstantiated Limitations of these policies are merely stated. 9 arguments Well-reasoned judgments/decisions either policies are well explained. economic China's context. Synthesises Descriptors Stance + Reason: of signing FTAs. słowbalisation. Level 2 Ξ **E**2 Ξ

- may downplay the need for medical attention. Moreover, insurance premiums, which medical treatment. However, the elderly may not adequately insure themselves as they Health insurance protects consumers against the risk of expensive and unanticipated situation of adverse selection reflect the risk that individuals have, can be prohibitively high for the elderly, resulting in a
- <u>a</u> Explain how imperfect information can lead to underconsumption of health insurance ₫ ħ elderly
- 01]
- ₫ Discuss possible measures that could be adopted to increase consumption of health insurance for the elderly [15]

(a) Explain ho insurance [10]	ow imperfect informator	(a) Explain how imperfect information can lead to underconsumption of meaning insurance for the elderly. [10]
Ouestion Analysis	vsis	
Framework		
Approach	Command word	Explain how
-	Question Type	Process (Cause & Effect)
	End point	Underconsumption of health insurance for the
		eideny
Content and	Content	Market Failure – imperfect information
Context	(Scope of coverage)	
	Context	Market of health insurance for the elderly
Introduction	tion failure or imperfect	information failure or imperfect information arises when economic agents lack critical
<ul> <li>Informa</li> <li>This es: underes</li> </ul>	ation to make rational d say aims to explain how	information to make rational decisions on choices and resource allocation. Information to make rational decisions of imperfect information – namely, This essay aims to explain how two forms of imperfect information – namely,

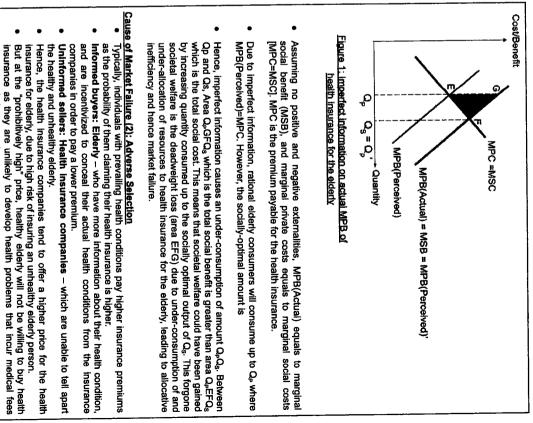
leads to market failure in the market of health insurance for the elderly

### Body

Cause of Market Failure (1): Underestimation of MPB(Actual) - Using five-step analysis ignorance of the actual private benefits of consuming them. "Elderly downplay the The elderly may not buy healthcare insurance even though they are beneficial, due to

- This makes them underestimate the marginal private benefits (MPB) of buying need for medical attention" as they have the misconception that they will never/seldom need to make insurance claims
- health insurance, causing MPB(Actual) to be higher than MPB(Perceived), as shown in Figure

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- The market, by adversely selecting against low-risk elderly, will be dominated by requiring reimbursement unhealthy elderly

•	The outcome is a missing market for insurance for healthy elderly leading to deadweight loss.	rly leading to
Mark Scheme	kooviedee. Applied to alvade standing a tal Aran Sis Area	Mark
<b>E</b> J	Full display of AO1, AO2 and AO3 skills: For an answer that shows a well-developed explanation for	8 – 10
	underestimation of actual marginal private benefits (with reference to an accurate diagram), and for adverse selection. • Good contextualisation to the market of health insurance for the elderly.	<u> </u>
12	<ul> <li>Uneven display of AO1, AO2 and AO3 skills:</li> <li>Answer lacks depth of analysis (i.e. limited development on both underestimation of actual marginal private benefits, and adverse selection.</li> </ul>	5-7
	<ul> <li><u>OR</u>, answer lacks breadth (i.e. only one type of imperfect information).</li> <li>Limited contextualisation to the market of health insurance for the elderly.</li> </ul>	
L1	<ul> <li>Limited display of AO1 and AO2 skills:</li> <li>Answer is irrelevant to the question. <u>OR</u></li> <li>Answer is descriptive or a mere listing of points, and/or contains major conceptual errors.</li> </ul>	1-4

(b) Discuss p health insu [15]	Discuss possible measures th health insurance for the elderly. [15]	(b) Discuss possible measures that could be adopted to increase consumption of health insurance for the elderly. [15]
Question Analysis	lysis	
Framework		
Approach	Command word	Discuss (i.e. need evaluation)
	Question Type	Measures – i.e. strategies by firms and government policies (How they work and their limitations)
	End point	Increase consumption of health insurance for the elderly
Content and Context	Content (Scope of coverage)	Strategies by fitms and government policies to address imperfect information
	Context	Market of health insurance for the elderly
Introduction	-	

This essay aims to discuss measures including strategies by firms <u>and</u> government policies to address both types of imperfect information explained in part (a).

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Marks	Evaluation
	major conceptual errors.
	<ul> <li>Answer is descriptive or a mere listing of points, and/or contains</li> </ul>
	•
1 - 4	L1 Limited display of AO1 and AO2 skills:
	<ul> <li>Limited contextualisation to the market of health insurance for the elderly.</li> </ul>
	limitations; OR only one type of imperfect information addressed).
	<ul> <li>OR, answer lacks breadth (i.e. either only how measures work or lacks)</li> </ul>
	measures work and their limitations).
5-7	1.2 Uneven display of AO1, AO2 and AO3 skills:
	<ul> <li>Good contextualisation to the market of nearly insurance for the energy.</li> </ul>
	measures.
	private benefits and adverse selection, as well as the initiality of the
	government and/or firms address underestimation of actual marginal
	<ul> <li>For an answer that shows a well-developed explanation of how</li> </ul>
8 - 10	Full disp
A DECOM	arrayate (
	Mark Scheme
	seeking medical treatment due to unwillingness and/or inability to pay tor to
sidenty avoid	short run, to avoid even more hefty cost on society in juture ii unilisured elderly avoid
sary in the	
elderly and	Additional insights: The government spending involved in educating the elderly and
	joint provision rather than direct provision.
are to optilor	policies to the elderly. This is even more so the case if the government were to option
e insurance	insurance firms because they are ultimately the ones who are selling the insurance
t by meanin	something that can not only be addressed by the government but by nearing
Selection is	good and have the obligation to educate the elderly population, adverse selection is
as a merit	
addressed	<ul> <li>Justify stand: While underestimation of actual private benefits is best addressed</li> </ul>

ght exist	Paragraph Writing         Introduction       Demand refers to the quantity of a good/service that consumers are willing and able to buy at a given price, ceteris paribus and is represented by a downward-sloping demand curve. Supply is the quantity of a good or service that a producer is willing and able to sell at a given price, ceteris paribus and the supply curve is upward-sloping. A market is at equilibrium where the demand curve intersects the supply curve so that there is neither shortage or surplus, and there is no tendency for the price or quantity to change over time.         Exclain why a       When there is surplus, the market is at disequilibrium. For example,	Content     and     Content     Surplus       Context     (Scope of coverage)     Demand-Supply analysis       Context     Context     Agricultural products like com	12 15 1	(a) Explain why a surplus of agricultural product like corn might exist and why a fall in price cannot eradicate the surplus.	product like corn, high price floors are set by governments to protect the income of farmers.
price commonly imposed market equilibrium price s the market price cannot s) exceeds the quantity ).	ice that consumers are aribus and is represented the quantity of a good or I at a given price, ceteris oping. A market is at the supply curve so that no tendency for the price quilibrium. For example,	)m Im		eradicate the surplus.	product like corn, high price floors are set by governments to protect the income of farmers.

Figure 1: A surplus in the market for corn

Ц

An unjustified stand.

E2

Provides a stand with limited justification.

E3

Evaluation

Provides a stand with clear justification using criteria and/or question assumptions.

4-5

2-3

6

S

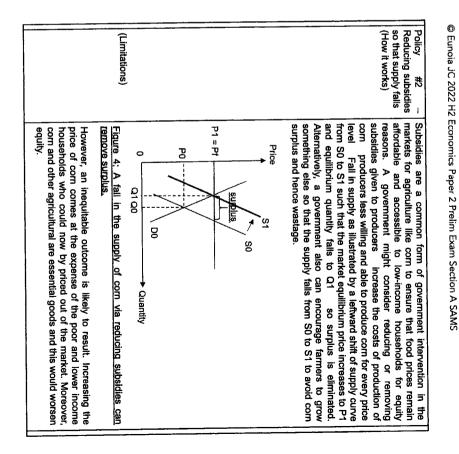
Explain why a fall in price	
cannot eradicate the surplus	in the price is required given that both the demand and the supply for agriculture like corn are expected to be price inelastic. The demand for corn is price inelastic because the nature of food has high degree of necessity. Hence the value of note allosticity of demand (PED) is loss
	than one i.e. PEDRAT. The supply for com is price inelastic at least in the short run because of producers cannot easily increase production of com
price floor (Pf) is not big enough to	given the gestation and harvesting time periods and thus PES<1. The price inelasticities of the demand and the supply are illustrated by the relatively steep demand curve (D0) and supply curve (S0) in Figure 1.
reacn the market equilibrium price (P0)	Because of the low PED and/or PES, the extent of fail in price floor has to be very large to clear the surplus. If Pf still exceeds Pe, then the market will still be unable to clear as the surplus persists.
Reason 2: Changes in demand and/or supply create a larger surplus	A fall in the price also cannot eradicate the surplus if there is a simultaneous fall in the demand and/or a simultaneous increase in the supply, leading to a bigger surplus created. This would require a bigger fall in the price floor to clear the surplus. Figure 2 illustrates the scenario where there is a simultaneous increase in the supply for corn, creating a bigger surplus at the price floor (Pf). Meanwhile, the market equilibrium price falls from P0 to P1. A bigger fall in the price floor from P1 to P1. A bigger fall in the price floor form P2 to P1 is price fall in the price floor form P2 to P1 is not be above.
	Price
	Bigger S0 S1
	Od
	00 X
	0 Q0 Q1
· · · · · · · · · · · · · · · · · · ·	Figure 2: A fall in the demand for corn creates a bigger surplus at price floor Pf.
Conclusion	When a government intervenes in the market for corn such as price floor, a surplus is created and will not be eradicated.
Alternative approa Part 1: Explaining v - Explain how a	Aftermative approach that was accepted: Part 1: Explaining why there is a surplus - Explain how a fall in demand and/or rise in supply leads to a surplus

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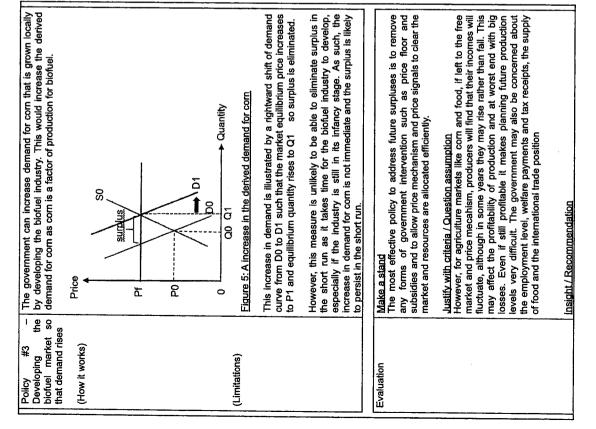
۳.۳	xplain	Explain how there is no do implementation of a price floor	downward pressure on price beyond Pf due t	to the
60001	<u>Explain</u> Explain h Explain th Explain th exist	<u>the second second second second</u> and the second se	Part 2: Explaining why the fall in price is not enough to clear the surplus - Explain how PED and/or PES is low - Explain that the extent of fall in price floor has to be very large for the surplus to clear - Explain that if the price floor remains above equilibrium price, the surplus will continue to exist	lear tinue to
Mark S	chem -	Kaovatedo Apone		Ments
[]	For an both ( clear inelast	an answer that provides a clear endpoints. Examples are used elaboration on the application o sticities of demand and supply in t	and thorough explanations of 8 to support the explanation. A or the justification of the price he agricultural markets.	- 10
21	For an Some elastici	For an answer that provides a good explanat Some attempt of the use of examples and ju elasticities are used to support the explanation.	For an answer that provides a good explanation of both endpoints. 5 – Some attempt of the use of examples and justification of the price elasticities are used to support the explanation.	- 7
1	For an without demons concept	answer that only any application itrated weak know ual errors.	gitates theoretical understanding 1– intext. Answer may have also and applications, possibly with	- 4
(q		Discuss the alterna to [15]	Discuss the alternative policies that could be adopted by a government to future surpluses. [15]	overnment surpluses.
Questio	Question Analysis	ysis		
Framework	work			
Approach		Command word	Discuss = Bal view + EV	
		End noint type		
Content	it and	Content (Scone of coverace)	Policies to address future surpluses (using 1 framework)	HAL
		Context	Agricultural products like corn	
Paragra	Paragraph Writing	ting		
Introduction	ction		The aim of a government is to remove or minimise surpluses because such surpluses illustrate inefficiencies in the markets. Moreover, a government also wants to achieve equity.	luses kets.
Policy #1 Reducing price	#1 ng price	1	р 1 10	and the
		market equilibri	market equilibrium price ( $P_0$ ) in order to eliminate the surplus.	1

œ

(How it works) (Limitations) consumers to increase quantity demanded ( $Q_{dd})$  along the demand curve ( $D_0)$  and incentivise producers to decrease quantity supplied With reference to Figure 3 (which replicates Figure 1), a reduction in the price from  $\mathsf{P}_r$  to  $\mathsf{P}_0$  downward pressure on price signals (Q<sub>ss</sub>) along the supply cuve where corn surplus is eliminated foods, which improve consumers' welfare and equity, poorer farmers However, an inequitable outcome is likely to result. Removing the price floor would remove the protection on farmers' incomes and this Figure 3: A fall in the price from P, to P<sub>0</sub> would remove surplus Average Variable Costs i.e. P<AVC. In the long run, this would farmers would leave if the shut-down condition is met i.e. Price < price Po is unable to cover at least their variable costs. That is the who could not survive would leave the market the market equilibrium While a big fall in the price of corn would translate to lower prices of would lead to a fall in total revenue from 0PrdQss to 0PrbQss. leftwards, increasing the prices of corn and food, worsening inequity decrease Price В 몃 0 the market supply and the supply curve would shift Odd ŝ surplus Q0 Qss 30 g Equilibrium is reached at  $P_0$  and  $Q_0$ SO → Quantity



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	The demand for agricultures like corn tend to stable while the supply for agricultures tend to be more volatile subjected to weather conditions and supply disruptions like natural disasters and wars and trade tensions. It is more critical to ensure and target the volatility in supply via research and development (R&D).
Note:	Note: only 2 policies required to attain full credit.
Mark	Mark Scheme Consoleration Assistances intersection of the second second second second second second second second second se
[3	A balanced and well-developed answer on the policies used by the $8-10$ government to address future surpluses, with consistent use of examples related to different countries' contexts.
L2	An under-developed, balanced answer on polices to address future $5-7$ surpluses, with inconsistent use of examples and gaps in analyses.
L1	May have many and/or serious conceptual errors. May have relevant points $1-4$ that were made incidentally.
	Evaluation
Ê	For an answer that arrives at an analytically well-reasoned judgement about $4-5$ the policies to address future surpluses. Might also question any unstated assumptions to arrive at this well-reasoned judgement.
E2	For an answer that makes some attempt at evaluation, but does not explain $2-3$ adequately their judgement or base it in analysis, about their judgement on the policies to address future surpluses.
E1	For an answer that gives an unexplained, unsupported evaluative statement 1 on the policies to address future surpluses.

12

	Singapore
	like Sembcorp
maximise profiles by seturing output as say (not composite or maximum or the imperfect markets (such as the one that Semborp Solar Singapore operating in), the price $P_M$ is determined from the AR corresponding $Q_{M}$	now optimum output is derived for a
A profit	Explanation
	additional unit
of Marginal costs refer to the advinuon to the initia score must be increase in unit of solar panel system is produced. This includes the increase in the increase increase and cost of raw materials.	Explanation of marginal costs
+	1
an marginal revenue.	enjoyed with an additional unit
additional unit of addition to reven	
of Marginal benefits refer to the addition to the firm's benefit when an	Explanation
(technicians, designers) and capital (internities to proceed to be panels) that it has. This would help it to identify if the decision to be considered is feasible or not. It would also consider budgetary constraints for instance nast profits that are available for use currently.	faced
For instan	Explanation constraints
Solar Sing	
	Introduction
	Paragraph Writing
Context Solar panel firm	
Content Constraints, periente, costs (Scope of coverage) Marginal analysis for output determination	Content and Context
nt Output decision	
Question Type Decision making	
Command word Explain	_
	Framework
	Direction Analy
Explain how Sembcorp Solar Singapore arrived at its output decision to build solar panel systems for 1,154 rooftops.	(a)
	profits.
Singapore. With Singapore's commitment towards sustainability, the tirm's emphasis on process innovation has positioned it well to further boost its	Singapore
Sembcorp solar singapore manufactures solar every solarby solar solar the firm embarked on building solar panel systems across 1,154 rooffops in	3 Semb
nom solar singenore manufactures solar energy equipment. In 2021,	

overall impact on profits Conclusion fark Scheme 5 រ 5 • . • • For an answer that shows a well-developed revenue Answer lacks depth of analysis (i.e. no or limited use of firm's revenue and cost analysis). <u>OR</u>, answer lacks breadth (i.e. only explains constraints, costs and benefits). firm arrives at the profit-maximising level of output. Good contextualisation to the solar energy market. row an answer that shows a well-developed revenue and cost analysis (including the use of diagram(s)) of how the firm arrives of the cost Answer is irrelevant to the question. OR Answer is descriptive or a mere listing Limited contextualisation to the solar energy market. contains major conceptual errors At Q<sub>1</sub>, MR>MC, meaning that producing an additional unit will add more to revenue than it does to costs. The firm can thus increase profits by At  $\mathbf{Q}_2,$  MR<MC, meaning that producing an additional unit will add more the cost than it does to revenue. The firm should thus decrease At Q<sub>w</sub> (MC=MR), which coincides with 1154 units, profit is maximised and any increase or decrease in production would result in a fall in profits. Thus, the firm makes use of marginal analysis in its decision making to production to increase profits. increasing production. decide to produce 1154 units of solar panel systems. Eig. 3: Cost and revenue of Sembcorp Solar Singapore Cost, Price ₹Ū 0 - CAR [2] 22 24 24 21 21 21 21 22 24 Q ٩ ۲ °, S MR of points, and/or AR = DD Quantity 8 - 10 5-7 1-4

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(q)	Discuss whether Sembcorp Solar Sin	Discuss whether process innovation is the best strategy for Sembcorp Solar Singapore to increase its profits.
Question Analysis	sis	
Approach	Command word	Discuss whether
<u></u>	Question Type	Two-sided argument requiring an evaluation
	End point	Efficient
and	Content	Profit maximisation
Context	(Scope of coverage) Context	Impact on efficiency Solar namel firm
Paragraph Writing	pui	
Introduction	A profit-maximising f revenue and total co	A profit-maximising firms seeks to maximise the difference between total evenue and total cost. To increase its profits, Sembcorp Solar Singapore
Thesis: Impact	+-	With process innovation. the firm can experience a rise in efficiency and
υ		this leads to a lowering of the firm's unit cost of production. This could
Innovation on		take the form increased ability to extract recyclable materials from parts
	Referring to Figure 2	Referring to Figure 2, this causes the firm's MC and AC to fall from MC.
	to MC <sub>2</sub> and AC <sub>1</sub> to	to MC <sub>2</sub> and AC, to AC <sub>2</sub> respectively. Initially, the firm produced at
	supernormal profits	prolit-fitaxitritsing Qi where MKi=MCi and charged Pi, thereby earning i supernormal profits P.ABC. Subsertiently it produces at the now
	profit-maximising Q Supernormal profits v	profit-maximising $Q_2$ where MR1=MC2, and charges a lower $P_2$ . Supernormal profits will increase to $P_2DEC_2$ .
	Figure 2: Fall	Figure 2: Fall in short-run average and marginal costs
	Price/Revenue/Cost	/Cost 2MC.
		// tMC2
	1	// 'tAC1
	a	A A RAC2
	·	
		and the second s
	0	
	As the industry is an	As the industry is an emerging one, process innovation can also help the
	firm to develop capabilities and he that potential firms will lack the te enter the industry. This would ena supernormal profits in the lond run	firm to develop capabilities and help it to maintain barriers to entry, such that potential firms will lack the technical know-how and be less able to enter the industry. This would enable the firm to continue to maintain its supernormal profits in the hom run.

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Anti-thesis: of Limitation of alternative strategy 1 to increase profits			Anti-thesis: Explanation of alternative strategy 1 to increase profits	Anti-thesis: Limitation of process innovation
<ul> <li>The extent of increase demand for the limits souid parties intry incomposition of the significant for the Singapore households. This is because most households live in HDB flats and are unable to purchase solar panels for significant. As such, product innovation should seek to address the needs of those living in private properties, or HDB itself that builds public housing, or commercial property owners with the ability to decide on the source of electricity for buildings in Singapore.</li> <li>Or</li> <li>Or</li> <li>However, with product innovation, the cost of production may increase correspondingly as the firm may need to make use of better quality factors of production. If AC and MC rises due to product innovation, then the extent of increase in profits may be limited for the firm.</li> </ul>	With successful product innovation, the firm can experience an increase in demand as it gives more certainty to consumers regarding the reliability of their product and services. Referring to Figure 3, the firm's AR and MR curve increase from AR, to AR <sub>2</sub> and MR, to MRs respectively. Initially, the firm profit-maximised at Q, where MR,=MC and charged P <sub>1</sub> . It enjoyed supernormal profits of P <sub>1</sub> ABC <sub>1</sub> . It later profit-maximises at a higher Q <sub>2</sub> where MR <sub>2</sub> =MC and charges a higher P <sub>2</sub> . Its supernormal profits thus increases to P <sub>2</sub> DEC <sub>2</sub> .	Price/Revenue/Cost P1 C1 C2 C1 C2 C1 C2 C1 C2 C1 C2 C2 C1 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2	An alternative that the firm can consider would be product innovation. By improving the quality of the solar panels, such as efficiency in harnessing and storing solar energy, the firm can experience an increase in demand, illustrated in Figure 3: Figure 3: Increase in demand	

Evaluation	Anti-thesis: Limitation of strategy 2 to increase profits		[Note: we only need one alternative strategy for this part.]	Anti-thesis: Explanation of alternative strategy 2 to increase profits
[Stand + justification] In conclusion, process innovation is a strategy that the firm should continue to pursue to increase in profits from the Singapore market. With Singapore's commitment towards sustainability, there would be a rise in use of renewable energy sources like solar energy, which would help to increase the size of the market and increase the demand for solar energy. With process innovation, the firm would be able to have first-mover advantage and establish barriers to entry against potential entrants, helping it to retain its profits in the long run.	<ul> <li>However, there may be impediments to this strategy. For instance, there may be other firms present overseas and they may have established strong barriers to entry that prevent Sembcorp Solar Singapore from entering the market, such as through purchasing the licenses that are required to operate in the country. As such, the extent of increase in AR and MR may be limited.</li> <li>[Other possible reasons for strong barriers to entry: foreign governments may not want to allow an overseas firm like Sembcorp Solar Singapore to produce in their country to prevent over-reliance on foreign entities for power generation.]</li> </ul>	By expanding their production to serve foreign markets, the firm can experience an increase in demand as it is serving a larger market. Referring to Figure 3, the firm's AR and MR curve increase from AR <sub>1</sub> to AR <sub>2</sub> and MR <sub>1</sub> to MR <sub>2</sub> respectively. Initially, the firm profit-maximised at Q <sub>1</sub> where MR <sub>1</sub> =MC and charged P <sub>1</sub> . It enjoyed supernormal profits of P <sub>1</sub> ABC <sub>1</sub> . It later profit-maximises at a higher Q <sub>2</sub> where MR <sub>2</sub> =MC and charges a higher P <sub>2</sub> . Its supernormal profits thus increases to P <sub>2</sub> DEC <sub>2</sub> .	Price/Reconnum/Cost Price/Reconnections Price/Rec	Another alternative that the firm can consider would be to diversify into overseas market. By selling to consumers beyond Singapore, the firm can experience an increase in demand, illustrated in Figure 3: Figure 3: Increase in demand

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and a second sec	[Condition] However, as the industry grows and subsequently matures, process However, as the industry grows and subsequently matures, process innovation may not be sufficient as other firms in the market are able to make breakthroughs in their research and similarly lower their cost of production. [Recommendation] As such, the firm should consider complementing process innovation with other strategies to increase AR and MR such that profits and continue to increase in the long run.	ie (Growledge-Application/UnderstandluggabadaAnalysts For an answer that shows a well-developed and well-balanced analysis (including use of diagram(s)) of the various strategies that the firm can adopt. Good contextualisation to the solar energy market.	Answer lacks depth of analysis (i.e. no or limited use of concepts 5 – 7 such as profits). OB, answer lacks breadth (i.e. only analysed one strategy/benefits of the strategy). Limited contextualisation to the solar energy market.	<ul> <li>Answer is irrelevant to the question. OR</li> <li>Answer is descriptive or a mere listing of points, and/or contains major conceptual errors.</li> <li>Provides a stand with clear justification using criteria and/or question</li> <li>Provides a stand with limited justification.</li> <li>Provides a stand with limited justification.</li> </ul>
	[Condition] However, as the ind Innovation may not be make breakthroughs production. [Recommendation] As such, the firm shou other strategies to inci increase in the long ruc	Mark Scheme Mark Scheme L3 • For an answer that shows analysis (including use of c that the firm can adopt. • Good contextualisation to the	Answer lacks depth of analy such as profits).     OR, answer lacks bre strategy/benefits of the strate . Limited contextualisation to th	<ul> <li>Answer is irrelevant to the quantum of the scriptive or a nmajor conceptual errors.</li> <li>Provides a stand with clear justitiassumptions.</li> <li>Provides a stand with limited justitian of the stand of the stand.</li> </ul>

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- 4 The US Federal Reserve cut interest rates to essentially zero to shelter the economy from the effects of COVID-19, such as falling prices and rising unemployment. This policy will be maintained until the economy is on track to achieve its economic goals.
- (a) Explain why the cut in interest rates is instrumental in achieving low unemployment in US.
- [10] (b) Assess whether maintaining low interest rates, on balance, will allow the US to attain price stability. [15]

		How did a cut in interest rates affect unemployment?	Paragraph Writing Introduction		Content and Context		:	Approach	Question Analysis
As such, the econ and real national inventories and the increase in deriv employed. This w income levels incr	P1 P2 GP1		This essay aims to explain low unemployment and t dominant policy in the US.	Context	Content (Scope of coverage)	End point	Question Type	Command word	ISIS
As such, the economy experienced an increase in aggregate demand and real national output increases. The firms will experience a fall in inventories and therefore a signal to step up production. This leads to an increase in derived demand for labour and more workers will be employed. This will lead to more induced consumption as household income levels increase, causing further increases to AD2 and therefore	ASI ADI ADI ADI	A lowering of US interest rates to 0% will reduce the costs of borrowing to households and firms. This enables households and firms to consider big-ticket expenditure through borrowing. The consumption and investment components of AD will increase causing AD to increase. Figure 1: Increase in AD	This essay aims to explain how a lowering of interest rates can achieve low unemployment and the factors leading to interest policy being a dominant policy in the US.	US cutting i/r to 0%	Factors affecting effectiveness of interest rate policy	Instrumental in achieving low unemployment	Factors affecting AD	Explain why examine reasons	

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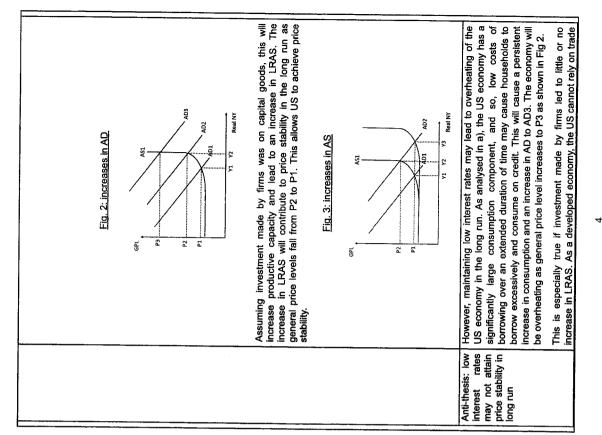
Answer is descriptive or a mere listing of points, and/or contains major conceptual errors.

Assess whether maintaining low interest rates, on balance, will allow the US to attain price stability. ê

[15]

<b>Question Analysis</b>	/sis	
Framework		
Approach	Command word	Assess whether T vs AT vs EV
	Question Type	Two-sided argument requiring an evaluation
	End point	Price stability changes to GPL
Content and	Content	Outcome of low costs of borrowing on inflation
Context	(Scope of coverage)	
	Context	US interest rates
Paragraph Writing	ing	
Introduction	The US is a develo	The US is a developed economy and likely to suffer from inflationary
	pressures. The gove	pressures. The government aim would be price stability which is a small
	examine how an en	criange to general price level of about 2-5%. This essay will continue to examine how an environment of low interest rates will affect the general
	price level in the US.	>
Thesis: low i/r		The US is currently experiencing falling prices in other words, deflationary
attability		pressure. This is undesirable as it deters the nousenoids consumption and firms' investment to the next time neriod when prices are deemed to
	be lower, and more	be lower, and more advantageous to households and firms. The low
	interest rates will al	interest rates will allow households and firms to have access to cheap
	credit and reinforce their abiliti	credit and reinforce their abilities to consume and invest, without the need
	A sufficiently low co	A sufficiently low cost of borrowing will incentivise firms and households
	to borrow and spend	to borrow and spend especially if the overall sum with interests accrued is made forcer As such consumation and invoctment compared will
	increase, leading to	increase, leading to an increase in AD and real national income.
	Assuming the US is	Assuming the US is operating near the intermediate range, there will be
	partial multiplier effe	partial multiplier effect and productive capacity is reduced and there is
	greater competition 1 leads to higher costs	greater competition for the increasingly scarce factors of production. This leads to higher costs of modulation and hence causes general price level
	to increase from P1	to increase from P1 to P2. This will be effective in overcoming falling
	prices and achieving price stability.	price stability.
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<ul> <li>Limited display of AO1 and AO2 skills:</li> <li>Answer is irrelevant to the question</li> <li>Answer is descriptive or a me contains major conceptual errors.</li> </ul>	<ul> <li>Uneven display of AO1, AO2 and AO3 skills:</li> <li>Answer lacks depth of analysis (i.e. concepts).</li> <li><u>OB</u>, answer lacks breadth (i.e. only negative impact of low interests).</li> <li>Limited contextualisation to the US econ</li> </ul>	heme Knowledge, Application/Underst Full display of AO1, AO2 and AO3 skills: - For an answer that shows a well-de analysis (including use of diagram(s to the US economy if interest rates a - Good contextualisation to the US ec			
ited display of AO1 and AO2 skills: Answer is irrelevant to the question. OR Answer is descriptive or a mere lis contains major conceptual errors.	aven display of AO1, AO2 and AO3 skills: Answer lacks depth of analysis (i.e. no concepts). OB, answer lacks breadth (i.e. only ana negative impact of low interests). Limited contextualisation to the US economy	e <b>EXAMPLATION</b> Application/Understanding and Analysis display of AO1, AO2 and AO3 skills: For an answer that shows a well-developed and well-balanced analysis (including use of diagram(s)) of the costs and benefits to the US economy if interest rates are kept low. Good contextualisation to the US economy.	Justifications As discussed, the US is a developed economy with limited spare capacity, and excessive increases in consumption will be detirmental. An habits. Profit driven firms are more likely to file for patents to safeguard their R&D instead of sharing these new technologies, which limits the expansion of productive capacity. It is more likely that the US economy will experience inflation if interest rates are kept low. Further insights This is further complicated by the worsening US-China trade ties, which could lead to supply constraints, resulting in costs-push inflation, should China withhold essential exports to US. The silver lining, perhaps, is that inflation will erode the value of debt.	Stand While the low interest rates will be effective in stimulating employment, maintaining it low over an extended time period is more likely to lead to inflation, in particular demand-pull inflation.	partners for exchange of technology. The US firms have to conduct research and development to achieve breakthroughs, which incurs a high risk of failure. Despite low interest rates, the return on investment for R&D may not be sufficiently lucrative for firms to take on high risks, especially in an era of global pandemic with many uncertainties. This complicates the US ability to achieve price stability.
of AO1 and AO; relevant to the c descriptive or jor conceptual	f AO1, A depth lacks b lac blow stualisati	Applica 1, AO2 a r that sh iding use nomy if ii valisation	tifications discussed, the pacity, and exces points. Profit driven it R&D instead it R&D instead in rher insights rther insights is is further com is is further com inter the supplication withhold essentiation attion will erode to	e low infing it lov in partic	for excl ailure. D y not b y in an tes the L
d AO2 sl the que e or a otual erro	of anal of anal readth interest on to the	and AO3 and AO3 hows a w se of diag interest ra interest ra	he US cessive i cessive i w borrov ven firms d of shi d of shi ductive fination if fination if finatio	lerest ra v over a ular dem	hange o elopmer espite lo e sufficie era of g JS ability
 Ге	∖O3 skills: ysis (i.e. (i.e. only (i.e. only s). s). s).	en taut skills: ell-devel rram(s)) c ates are l JS econc	Justifications As discussed, the US is a deve capacity, and excessive increases in antricomment of low borrowing costs habits. Profit driven firms are more their R&D instead of sharing these expansion of productive capacity. If will experience inflation if interest rat will experience inflation if interest rat Further insights Further complicated by the v could lead to supply constraints, re constraints, to China withhold essential exports to inflation will erode the value of debt.	n extend and-pull	for exchange of technology. and development to achieve b ailure. Despite low interest rat ny not be sufficiently lucrative y in an era of global pandem tes the US ability to achieve pri
DR listing of	no or analys orny.	oped and free cost wept low.	a developed economy with limited reases in consumption will be detimen ing costs will result in undesirable consu- ing these new technologies, which lim pacity. It is more likely that the US ec- terest rates are kept low. terest rates are kept low. by the worsening US-China trade ties, raints, resulting in costs-push inflation, ports to US. The silver lining, perhaps, of debt.	e effecti ed time inflation.	eve brea st rates, rative fo ndemic ve price
points,	pos	Antivi d well-ba	econon umption sult in un to file for technolo t	ve in sti period is	le US fi kthrough the return r firms the with ma stability.
and/or	use of itive or	lanced	ny with will be d desirable r patent that the that the s-push ir s-push ir s-ining, p	mulating more lil	rms hav ns, which urn on ir to take o ny unce
	ິ 	8 - 10	Justifications As discussed, the US is a developed economy with limited spare capacity, and excessive increases in consumption will be detrimental. An environment of low borrowing costs will result in undesirable consumption habits. Profit driven firms are more likely to file for patents to safeguard their R&D instead of sharing these new technologies, which limits the expansion of productive capacity. It is more likely that the US economy will experience inflation if interest rates are kept low. Further insights Further complicated by the worsening US-China trade ties, which could lead to supply constraints, resulting in costs-push inflation, should China withhold essential exports to US. The silver lining, perhaps, is that inflation will erode the value of debt.	employ kely to le	The US firms have to conduct reakthroughs, which incurs a high es, the return on investment for for firms to take on high risks, inc with many uncertainties. This ic with many uncertainties. This ce stability.
4	7	10	spare tal. An mption gguard gguard its the onomy should is that	ment, ad to	nduct 1 high nt for This This

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An unjustified stand.	stand wi	question assumptions.	a stand	
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	ted jus		clear	
	Provides a stand with limited justification.		Provides a stand with clear justification using criteria and/or	
			using	
			criteria	
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	2-3 3		Ġ	1916

- 5 The COVID-19 pandemic has resulted in Singapore introducing circuit breaker measures, which include a stay-at-home order coupled with international border closures. The government introduced a Job Support Scheme to offset labour costs for affected industries such as the aviation and tourism sectors.
- (a) Explain how circuit breaker measures might have consequences on Singapore's aggregate demand and aggregate supply. [10]
- (b) Singapore has a high Gini coefficient.

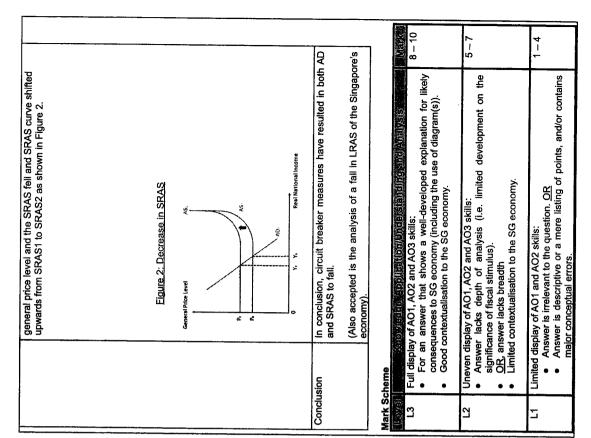
Discuss whether inclusive growth remains a macroeconomic priority during an [15] economic downturn.

	<b>Question Analysis</b>	ysis	
_	Framework		
	Approach	Command word	Explain how process
		Question Type	AD-AS analysis
-		End point	Outcome to Singapore's AD and AS (SRAS or LRAS)
	Content and	Content	AD-AS analysis
_	Context	(Scope of	
		coverage)	
		Context	SG circuit breaker
	Paragraph Writing	ting	
	Introduction		An economy's aggregate demand (AD) refers to the total demand of or total planned spending on the economy's domestically
		(GPL) in a given	produced final goods and services, at a given general price level (GPL) in a given time period. The equation for AD is AD = C + I + C + C + C + C + C + C + C + C +

<ul> <li>An economy's aggregate demand (AD) refers to the total demand of or total planned spending on the economy's domestically produced final goods and services, at a given general price level (GPL) in a given time period. The equation for AD is AD = C + I + G + (X-M), so AD comprises of consumption (C) by households, investment (I) by firms, government spending (G) by government, and the value of net exports (X-M) by the foreigners.</li> <li>An economy's aggregate supply (AS) refers to the total value of goods and services that firms in an economy are willing and able to produce at a given general price level in a given time period. The short-run AS is affected by the unit costs of production of firms in the economy, while the long-run AS is affected by the quantity and quality of factors of production.</li> </ul>			
	aph Wri		
An economy's aggregate supply (AS) refers to the total value of goods and services that firms in an economy are willing and able to produce at a given general price level in a given time period. The short-run AS is affected by the unit costs of production of firms in the economy, while the long-run AS is affected by the quantity and quality of factors of production.	Liction		
		An economy's aggregate supply (AS) refers to the total value of goods and services that firms in an economy are willing and able to produce at a given general price level in a given time period. The short-run AS is affected by the unit costs of production of firms in the economy, while the long-run AS is affected by the quantity and quality of factors of production.	

This essay aims to explain the effects of the circuit breaker on the economy of Singapore.	The circuit breaker with the stay-at-home order reduces the consumption, investment components of the AD. The restriction brought business to a halt. The unprecedented measure brought about uncertainty across many sectors including the food and beverages, entertainment and construction sectors. The uncertainty made households pessimistic (expected future incomes to fall) and therefore set aside more savings and reduced their consumption. As businesses were unable to foresee the reopening of the economy (expected profits to fall) and along with high costs of rentals, many small businesses cut down on their investment (as the expected rate of returns to investment would fall).	(Also accepted is with the international border closures, there is a fall in the demand of exports such as tourism and hospitality services, leading to a fall in exports revenue. Assuming import expenditure is constant, a net fall in exports revenue (X-M) is expected.)	As the consumption, investment and net exports revenues are components fell, AD fell from AD1.	Figure 1: Decrease in AD	General Price Level Potrice Potric	The circuit breaker consists of border closure and a halt to mobility of raw materials and labour across borders. Singapore has no natural resources and with its small domestic population relies on importing raw materials and foreign labour for its resources. The immobility of labour brought about labour shortages across many sectors including the food and beverage and construction industries. The short age led to higher wage costs for businesses. This brought about higher unit costs of production throughbut the economy in the short run. As unit costs of production increases in the short run, firms will reduce their production of output at every
	Outcome on AD					Outcome on AS

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# (b) Singapore has a high Gini coefficient.

Discuss whether inclusive growth remains a macroeconomic priority during an economic downturn. [15]

Thesis: inclusive growth remains a priority	Paragraph Writing	Content and Context	Question Analysis Framework Approach Co
	ng Gini coefficient examines Singapore has a high Gini income in the country ma examine whether inclusive economy out of recess ion.	End point Content (Scope of coverage) Context	sis Command word Question Type
To achieve inclusive growth, Singapore needs to achieve actual growth, potential growth and a closing of income disparity. One of the measures introduced along the circuit breaker was the job support scheme. The job support scheme was introduced by the government to offset wage costs for severely affected industries so that these industries can continue to retain their labour despite the closure of the economy. This allowed the affected workers to continue to draw their salaries and protect their employment, such that the fall in consumption component will be cushioned. Offsetting the labour costs for affected industries also provided an opportunity for investment to promote automation. As such the C and I components of the AD may actually increase and bring about actual growth as the increase in AD bring about multiple increases in real national income.	Gini coefficient examines the spread of income for a population. Singapore has a high Gini coefficient which suggests that the spread of income in the country may be distorted. This essay will continue to examine whether inclusive growth remains a priority when lifting the economy out of recess ion.	Outcomes on inclusive growth actual growth, potential growth and narrowing of income disparity Singapore and pandemic contractions	Discuss whether T vs AT vs EV Two-sided argument requiring an evaluation

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Evaluation		Anti-thesis: inclusive growth may not be priority			
Stand While inclusive growth can remain as an overarching objective of the government, different economic circumstances will highlight alternative priority. In combating the downturn brought about by the pandemic, the key objective would be safeguard employment, particularly skilled labour of key sectors. Justifications The job support scheme which offset labour costs for severely affected industries almed to retain existing labour. Affected industries such as	A massive lay off will cause a widening of income gap as households with retrenched workers will suffer a loss of income for unforeseen duration of time. The stay-at-home orders also complicated efforts to secure new employment. Job support scheme offset wage costs to allow firms to retain their workers and avoid a massive retrenchment. Thus it appears the priority would be to minimise unemployment.	During an economic downtum or a recession, the key concern of Singapore government has been to stimulate an increase in real national income and to reduce unemployment. The Job support scheme aims to offset labour costs and hence reduce unemployment. This suggests that a key priority during the economic downturn was to minimise unemployment. Singapore will suffer from cyclical unemployment given the recession as the fall in C, I and (X-M) leads to a fall in AD and through reverse multiplier, multiple falls in real national income. The fall in AD will lead to accumulation of stocks and hence a signal to firms to step down production and lay off workers. The fall in derived demand for workers will give rise to cyclical unemployment. Given the openness to trade, the closure of the borders may lead to shut down of many small firms particularly as DD=AR falls as foreign markets are closed off and AC and MC rises due to supply chain disruptions leading to small firms making subnormal profits. The resulting laying off of workers may be to a large extent.	Thus, it appears that inclusive growth can remain as a priority to Singapore government.	Lastly, the government continued the effort for Skillsfuture which allowed workers to attend courses to update their skill sets and remain relevant in the changing landscape for employment. This will be particularly impactful to close income gaps as low-income workers can now earn higher income with the increased productivity brought about by their new skills.	The investment made to automate processes can enhance productive capacity of the economy which brings about an increase in LRAS and increase in Yf1 to Yf2. This generates potential growth and remedy demand-pull inflation as it moderates general price level to P2.

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unt of skilled labour. closing of income key sectors to the in these industries mic recovery. Once a industries are vital M) component of the		8 – 10	5-7	1 - 4	4-5	2-3	
aviation and tourism sectors employ a significant amount of skilled labour. Thus the scheme does not contribute as much to closing of income disparity. Further insights Undeniably, the aviation and tourism industries are key sectors to the Singapore economy and retaining the skilled labour in these industries allows the economy to be better positioned for economic recovery. Once the measures for border closures can be lifted, these industries are vital for Singapore economy to foster faster uptake for (X-M) component of the AD.	Mark Scheme ແມ່ນອີ   ເຈົ້າເອນໃຍຢູ່ເລ, Δρູຢູ່ທີ່ອາເນອກທີ່ນໍາຜ່ວງເວັກກໍ່ດີໃກ້ຫຼາວກໍ່ຢ່າໃຈການເຮົາເຮົ	<ul> <li>Full display of AO1, AO2 and AO3 skills:</li> <li>For an answer that shows a well-developed and well-balanced analysis (including use of diagram(s)) to inclusive growth remaining as a key priority during a recession</li> </ul>	<ul> <li>Uneven display of AO1, AO2 and AO3 skills:</li> <li>Answer lacks depth of analysis (i.e. no or limited use of concepts).</li> <li><u>OB</u>, answer lacks breadth (i.e. only analysed thesis or anti-thesis for inclusive growth remaining as a key priority).</li> <li>Limited contextualisation to the SGeconomy.</li> </ul>	<ul> <li>Limited display of AO1 and AO2 skills:</li> <li>Answer is irrelevant to the question. OR</li> <li>Answer is descriptive or a mere listing of points, and/or contains major conceptual errors.</li> </ul>	Provides a stand with clear justification using criteria and/or question assumptions.	Provides a stand with limited justification.	An unjustified stand.
	Mark S WEXO	ព	[2	L1	E3	Шı	Ξ

- 6 Australia achieved a record high trade surplus of over A\$75 billion in 2020. This is commendable despite China, its biggest trade partner, imposing trade restrictions on Australia like a quota on cotton. One reason for the trade surplus was strong prices for Australia's main exports like agricultural products and iron ores.
- (a) Explain how Chinese import quotas will affect Chinese cotton producers and consumers and its effect on Australia's balance of trade.
   [10]
- (b) Discuss whether net exporters like Australia should pursue free trade at all costs.

[15]

Suggested answers

(a)

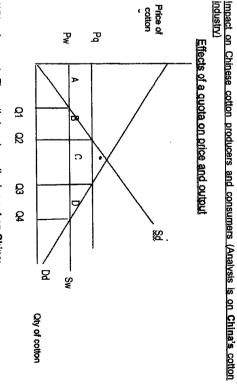
Command Word Explain how	Explain how
<b>Question Type</b>	Effects
Start Point	Chinese impose quotas on Australia cotton
End Point	1. Chinese cotton producers and consumers
	2. Australia's balance of trade
Content	Quota analysis
Context	China and Australia

Quotas are quantitative restrictions on imports. A quota may relate to the maximum total quantity or maximum value of a commodity that can be imported in a given period. Their effect is to reduce the quantity supplied of imports in the domestic market. This will lead to a higher equilibrium price than that under free trade.

In this context, self-interested China imposes protectionistic measure on Australia, likely to protect its domestic cotton industry. For information, China is the consistentity one of

the largest cotton producer in the world and with it, much of its economy (in terms of income and employment) is dependent on this industry.

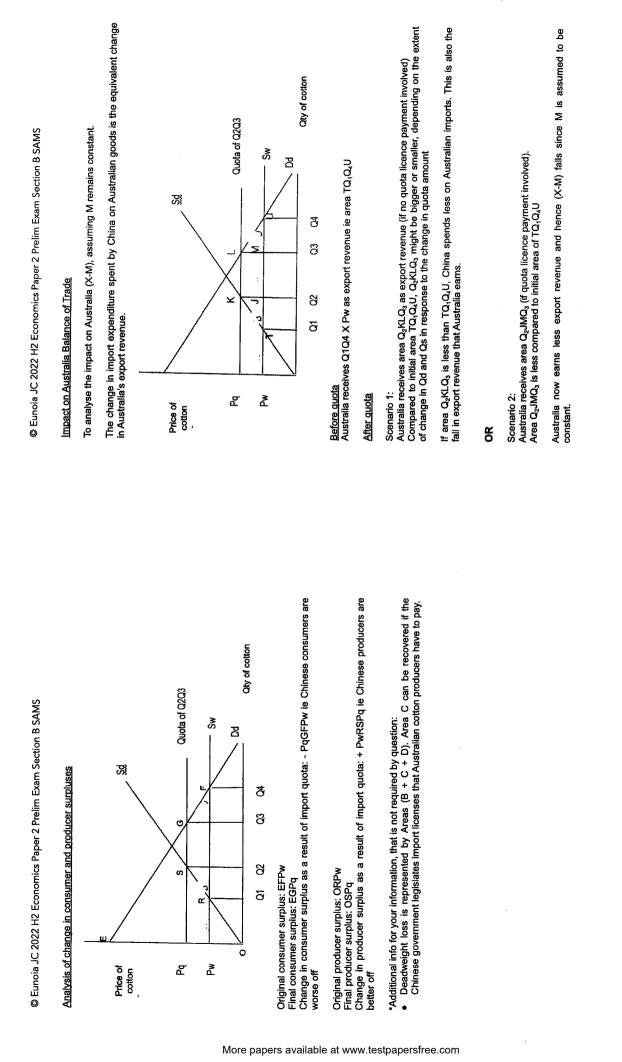
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- With reference to Figure that analyses the Impact on China:
   Initially, at the world price Pw before imposition of quota, Q1Q4 is the amount of the good imported.
- Assume that China decides to impose a quota of Q2Q3, restricting the amount of Australian imports.
- The imposition of the quota creates shortages of Q1Q2 + Q3Q4 at current price level Pw,

•

- leading to upward pressures on price:
   Domestic Chinese producers increase quantity supplied from Q1 to Q2. The increase in the domestic production of output leads to domestic firms to increase the derived
- 0 0 demand for labour, increasing employment and hence income. Chinese consumers decreases quantity demanded from Q4 to Q3 There is a reduction in the amount imported from Q1Q4 to Q2Q3
- Chinese consumers buy fewer units (Q3 instead of Q4) and pay a higher price (Pq instead of Pw)



BP~257

## Mark Scheme

	5	Knowledge Inderstanding Application. Analysis	Marks
5	•	For an answer that shows a well-developed diagrammatic analysis of	8-10
		how the imposition of Chinese quota on Australian cotton impacts	
	_	o Chinese consumers,	
		o Chinese producers, and	
		o on Australian balance of trade	
	T		μ
5	٠	For an answer that shows uneven display of the 3 required end points in	ç
		terms of breadth and/or depun	
2	•	Answer is irrelevant to the question (eg impact on Australian consumers	1-4
		and producers; tariff analysis, AD-AS analysis)	
	٠	Answer is descriptive or a mere listing of points without display or	
		analytical tools	
	•	Contains major conceptual errors	

(b) Discuss whether net exporters like Australia should pursue free trade at all costs. [15]

i	

Command Word Discuss whether	Discuss whether
Question Type	Impacts
Start Point	Free trade
End Point	BUGPS
Content	International trade, protectionism AD-AS analysis
Context	Net exporters like Australia

Thesis: Net exporters like Australia should pursue free trade

1. To maxmise the gains from free trade, in line with the Theory of Comparative Advantage

The benefits of free trade is based on the Theory of Comparative Advantage states that trade between nations is beneficial to all if each <u>specialises</u> and <u>trades</u> according to its comparative advantage.

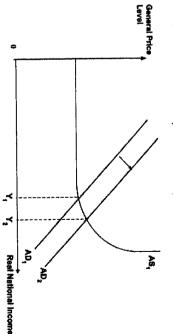
A country has a comparative advantage over another in the production of a good if it can produce it at a lower opportunity cost. Differences in opportunity costs is due to difference in factor endowments. Australia is a large nation that is endowed with abundant land and natural resources like iron as well as suitable climatic conditions to grow agricultural crops like cotton.

When Australia specialises in its area of CA such as in agriculture, there is a more
efficient allocation of its scarce resources. At the same time, Australia can choose to
purchase imports in areas which it does not have a CA in (rather than to produce
inefficiently). The differences in factor endowments mean that specialisation and trade

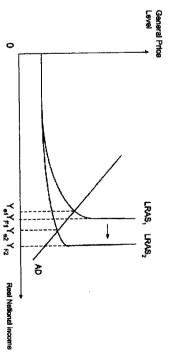
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will make it possible for a country to consume outside its production-possibility curve (PPC) which it was previously unable to attain. As a result, Australia is now able to enjoy greater quantity and variety of goods and services and with it, higher material standard of living.

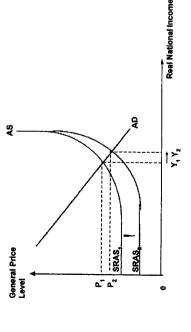
 With specialisation and trade, Australia will now have a larger export market, bringing about higher export volume and hence AD increases. This increases real national income via the multiplier effect (since one man's spending is another's income), leading to actual growth, as well as lower demand-deficient unemployment as demand for labour increases. This also improves the BOT position.



Trade also allows Australia to obtain higher quality factors of production by importing (eg AI technology). The subsequent rise in factor productivity enables the economy to produce more output per man hour. As a result, the maximum amount of output that can be produced if all FOPs are fully employed, increases. This rise in productive capacity is potential growth.



Trade allows the sourcing of factors of production from lower-cost economies, leading to an increase in SRAS. Lower costs translates into lower price of final goods and services produced, therefore lowering cost-push inflationary pressures.



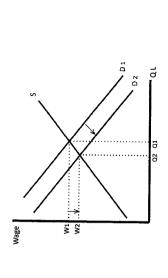
- 2. Despite the theory of CA that promotes specialisation, countries rarely totally specialise in the production of a single good. Consumers value a variety of goods and services to better meet their unique tastes and preferences, providing the basis of intra-industry trade. This allows Australia to still benefit from trade. For example, if Australia hard, the production of honey, Australians will also like to consume New Zealand honey. Hence, free trade is beneficial over and above the gains as predicted by the theory of CA.
- 3. Australia will likely have favourable Terms of Trade "strong prices for Australia's main exports". In other words, Australia is able to earm more from each unit of export compared to the expenditure on each unit of import. In Australia's case, a favourable TOT happens to also enable it to become a net exporter, with positive impact on economic growth and reducing demand-deficient unemployment via the multiplier effect. Hence, free trade is beneficial for a net exporter like Australia that also has a favourable TOT.

Anti-thesis: Net exporters like Australia should not pursue free trade at all costs ie reasons for protectionism. 1. Protection of infant industries. In the real world, countries continually face dynamic internal and external changes. Areas of CA are seldom permanent. Hence, countries are continually looking at new areas of CA in anticipation of how current areas of CA may become irrelevant or lost to other more cost-efficient countries. With inability to sufficiently develop infant industries that can potentially produce at the lowest opportunity cost globally, the industry will not be given a fair chance to sufficiently develop and mature (for example if Australia is developing its watch industry to be itself against Switzerland). Free trade without protection will thus compromise its future ability to become an area of CA, compromising its ability to achieve actual growth and to achieve higher material standard of living.

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2. Risk of structural unemployment for sectors which it does not possess comparative advantage in. Free trade means that these sectors will be exposed to the respective countries with CA. Due to higher opportunity cost incurred in production, the non-CA sectors of Australia will lack export price competitiveness. International consumers will instead choose to import from the countries with CA (eg New Zealand honey). Similarly, producers may also choose to import from countries with cheaper factors of production (eg China gold) so as to produce their exports more cheaply (maintain export price competitiveness).

Since labour is a derived demand of the goods produced, the demand for labour will fall if there is no protection, leading to fall in wage for existing labour and a rise in unemployment.



3. On the grounds of economic diversification and self-sufficiency in light of growing global tensions and supply shocks. With free trade, Australia can be vulnerable to rising factor costs due to weather shocks, Russia-Ukraine crisis, protectionistic measures like quotas (from China for example). Therefore, Australia had to also have its domestic sources of production, and not entirely rely on the world for its needs. [Theory of CA stipulates that a country totally imports goods and services that are non-CA.]

This is also important for Australian producers that rely on imported factors of production. Heavy reliance of such will expose producers to higher costs of production (AC and MC rise) within short notice, leading to declining export price competitiveness and hence profits. Similarly, if Australia exports are largely necessity goods like natural resources (0 < YED < 1), a prolonged global recession will lead to a less than proportionate fall in demand and hence a fall in export revenue, alongside increased demand-deficient unemployment (laying off of factors of production via reverse k effect). This abovementioned effect will be more pronounced as Australia also exports luxury goods (YED > 1) like wine and lobsters.

### <u>Evaluation</u>

## Weighted stand with justification

Disagree to a large extent that free trade is to be pursued at all costs. In the real world, a country's position on free trade vis-à-vis protectionism lies on a spectrum and not as a binary decision (fully free trade or full autarky). This means that a country can choose to adopt a pro-trade position but maintains selective protectionism for certain sectors over

differing periods of time for various reasons. Similarly, a net exporter like Australia has largely benefited from trade and will continue to calibrate its approach so as to reap the benefits of free trade while also protecting its domestic interests against the possible costs.

While there are going to be anticipated (economic recessions, booms, rising slowbalisation sentiments) and unanticipated events (supply-side shocks like resource crunch) happening. Australia's **enduring policy** is to continually participate in international trade while putting in place measures to protect itself from external developments.

- Recommendation as final insight
   Whether it is to react against the above events or to proactively safeguard its interests,
   Australia should continually focus on supply-side policies to continually reinvent itself to protect its current areas of CA and to nurture new areas of CA, as well as to produce goods of strategic interests for self-sufficiency.
- Doing so will also enhance its productive capacity, mitigating demand-pull inflationary pressures if it continues to earn rising trade surpluses.

## Mark Scheme

	<ul> <li>Answer is irrelevant to the question and for a response that incrementy contains points relevant to the question.</li> <li>Contains major conceptual errors.</li> </ul>	ב 
sis.	<ul> <li>For an answer that lacks depth (claims and statements without sufficient development using suitable tools of analysis) and/or breadth of analysis.</li> <li>Limited contextualisation to a net exporter.</li> </ul>	5
sto	analysis. A balanced analysis comprising 3 points is expected, with clear links to specific economic impacts.	,
의 통	For an answer that holistically analyses whether a net exporter like Australia ought to pursue free trade at all costs, using suitable tools of	L3
	Knowledge Understanding. Application, Analysis	

		Marks
Evaluation		7 7
E3	Provides a stand with clear justification using criteria and/or question	ţ
	assumptions.	2
E2	Provides a stand with limited justification.	5.7
	An university of the stand	
<u>_</u>	All dijusuled stalid:	