Level 3 Exemplar

	Section A (44 marks) 1. A free good must be free of charge. Do you agree? Explain your answer. (3 mark
	yes. It is because the people do not profer free good more. There are no opportunity cost involve of producing the free good. The people will not pay for it and the free good must be free of charge.
in the margins will not be marked.	2. A chain restaurant providing Chinese cuisine set up a cake shop. (a) Explain which type of expansion this was. (b) List TWO possible motives for the above expansion. (c) After the opening of 10 more restaurants, the firm found that its average cost decreased. State TWO possible reasons for this. (2 marks (2 marks (2 marks (2 marks (2 marks (2 marks (3 marks (4 marks (5 marks (6 marks (7 marks (8 marks (9 marks (9 marks (1 marks (1 marks (1 marks (1 marks (2 marks (2 marks (2 marks (2 marks (2 marks (2 marks (3 marks (4 marks (5 marks (6 marks (6 marks (7 marks (7 marks (8 marks (9 marks (9 marks (1 marks (2 marks (1 marks (2 marks (2 marks (2 marks (2 marks (1 marks (2
Answers withen	b) The brand name: can be more tamous. This expansion can lower the risk when the reastaurant is facing some big problem. c) The cost of collecting material is more chappy but to the reastaurants, of scale is enlarged. It is more chapper for the company to buy a large number of moterials.

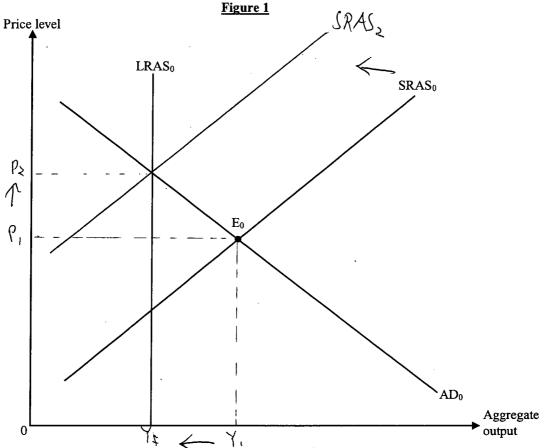
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3. Be	elow are the gross domestic product (GDP) data of a country. Real GDP growth rate
	Time
(a)	Identify the phase of business cycle which point A is in. (1 mark
(b)	Apart from increasing unemployment rate, list TWO general economic phenomena which occur a point A. (2 marks)
(c)	State TWO losses to society caused by unemployment. (2 marks
	Recession
b)	The private consumption A and the investment expenditure of the people decrease.
c)	The skills of the worker who are unemployed will wrease. The machine is not fully used, the output level
1	
	at the people decrease.

	omy.	ation of an econ	the following informa	I. Study
	Consumer price index (CPI)	Year		
	110	2018		
	117	2019		
(1 r		on rate in 2019.	Calculate the inflation	(a)
neasure the change in the (2 m	using CPI and GDP deflator to m	ence between u	Explain ONE differ level.	(b)
e central bank is the cause the <u>classical</u> quantity theory LR (4 m	hase of government bonds by the the statement with reference to the	en market purchomy.' Justify	'The continuous open inflation in the econ money.	(c)
	,)	= 6,36%	110 X100%	a)
of the products.	easure the bushet will measure all	will and deflator	The CPI AND GDP	Ъ)
	theory, MV=pV is refer to money s	the M	Classical +	٥)
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ity theory of	· in Long Run. So	(1.1/16.01	7/0/Juq	
ity theory of	n Long Run, So	nuch	J.	
ity theory of	e of government t	purchase	open market	
ity theory of	e of government to Money supply will it	purchase the	open market central bank,	
that when the sond by the rureage, and the	in Long Run. So e of government to Money supply will it	purchase the	open market central bank, price level	
that when the said by the rureage, and the	in Long Ru. So e of government to Money supply will in mureup too- the cause of fifth	purchase the	open market central bank, price level So that	

i.	(a)	What is the opportunity cost of holding money? Explain. (2 m
	(b)	Peter owes Mary \$100 and he has no cash in his wallet. He suggests repaying Mary by a coupon (with a face value of \$100) issued by a supermarket chain. Give TWO economic reaso explain why Mary would refuse to accept the cash coupon as a repayment of Peter's debt. (4 m.
	a)	The cost of holding money is the nominal intere
		of doing investment,
	p)	When there is a mexpected inflation, the price level
wi!	ia. 1	reac. The real value of money will rise. But the coss's value will be decrease. The Peter will losé.
	coupton	's value will be decraye. The Peter will lose.
		The day of the last of the las
	مل م	The \$100 for Peter is the earlier consumption, and the compon is not the interest of the compensation of
	Cash	coupon is not the interest of the compensation of
	the	earlier consumption.
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Suppose an economy initially operates at E₀. With the aid of Figure 1, explain how market forces can restore the aggregate output level to the full-employment output level in the long run. (5 marks)

Answers written in the margins will not be marked.

When there is a inflationary gazo. The input price will increase. The cost of production will increase. The short run aggregate supply will decrease, The price level murase and the aggregate output level restore to the full-employment output level.
The short run aggregate supply will decrease. The price
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lever mouse and the aggregate ample recei restore
to the full-employment output level.

	7. Suppose the outputs per unit of resources of Country A and Country B are as follows:
	Toys (units) Cars (units)
	Country A 10 (C OR 10 / 7
	Country B $20 \circ C \circ $
	(a) Which good would Country B export according to its comparative advantage? Explain. (3 marks) (b) Suppose Country A and Country B trade at an exchange ratio of 5 units of toys to 4 units of cars. A
	transportation cost of 0.2 units of cars is required to exchange for 1 unit of toys and the cost is equally shared by both countries. Calculate the gain per unit of export of Country B. Show your workings. (3 marks)
marked.	a) let T be Toys, let C be Cars. The opportunity cost of producing Toys in Country A: \frac{10C}{10C} = 1C
ill not be	in Country B: 100 = 0.50
argins w	The opportunity cost of producy Cars in Country A: 107 = 1T
Answers written in the margins will not be marked	According to comparative advantage the country B of producing
nswers wri	Tous have a fewer opportuity cost than Country A. So Country B will specialise produing Tous and export Tous
A	b) Exchange ratio: ST=+C 1 T=0,8C
	The gain pa unit of export of Courty B:
	0-8-0.5-0.1
ŀ	= 0,2,,
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			Assets (\$	million)	Liabilities	(\$million)		
			Reserves	1000	Deposits	4000		
			Loans	3 000				
Sup	pose the p	ublic alv	ways hold \$800 n	nillion cash	and the bank	ing system o	does not hold excess	reserves.
(a)	Find th	ne mone	tary base and mo	ney supply	in Country A			(2 marks
(b)	Suppo overse		F71 withdraw \$700) million f	rom the ban	king systen	n and remit the w	hole amoun
	(i)	Find th	e change in mone	etary base in	n Country A.			(1 mark
	(ii)	Calcula workin		n possible	change in r	noney supp	oly in Country A.	Show your (3 marks)
a)	Moneta	ry l	Base = Cast	hold	m public	+ Bar	k Reserves	
		ں 	1 5800	+\$1000	million.	************	k Reserves	
				o million				
	Money	Swp	phy = Cas	h Hold	m publi	c + B	ank deposts	
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Maximum			x 20% < \$1					
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Answers written in the margins will not be marked.

END OF SECTION A

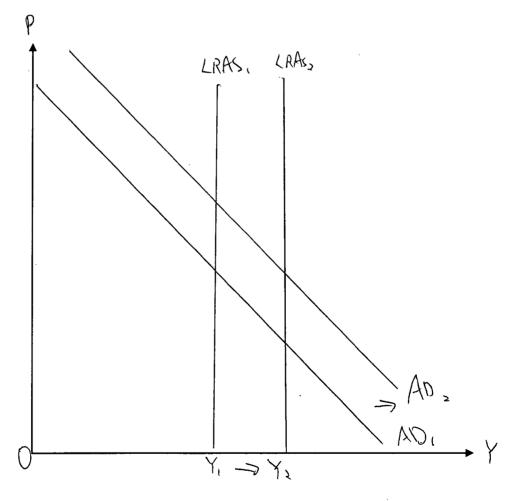
Section B (60 marks)

Answers written in the margins will not be marked.

- 9. Ocean Park and Hong Kong Disneyland are the two large theme parks in Hong Kong.
 - (a) What is the market structure of the theme park industry in Hong Kong? List **TWO** features of this market structure. (3 marks)

The first hotel in Ocean Park was launched in 2018 while the second hotel and the water park were scheduled to be opened before 2021. It is expected that such infrastructure development can attract more tourists to stay longer in Hong Kong.

(b) Other things being equal, what will be the effects of the infrastructure development on Hong Kong's aggregate demand and long run aggregate supply in the future? How about on aggregate output? Explain your answers with the aid of a diagram. (8 marks)



	(c)	Instead of obtaining bank loans to finance the infrastructure development, it is suggested that Ocean Park can be listed in the stock market and issue shares to raise capital. State TWO advantages of issuing shares over obtaining loans from banks for raising capital. (2 marks)
	<u>(</u> d)	The contribution of the infrastructure development of Ocean Park to Hong Kong's GDP in 2019 could be smaller than the total amount invested in the two hotels and the water park. Explain why the statement may be correct with TWO reasons. (4 marks)
	<u>o</u>	ore imperfect information of the company.
igins will not be marked.		Due to the infrastructure development in the future will attact more tourists to stay longer in Hong Kong. The aggregate demand will increase. The price level and the gregate output will also increase. And the infrastructure development will raise the the long run aggregate supply 3 the aggregate output output will increase. So that the final aggregate output increase.
Answers written in the ma		gregate output will also mercule. And the infrastructure development will raise the the long run aggregate supply of the aggregate output increase. Issuing shore for vaising capital have no obigation to pay the dividend what ever the company have a lost or have a profit Also of it is more whety to afford the risk when the company face a lost.
	<u> </u>	It is because the

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(a) (i) Describe the changes of current account data of the US in the above source.

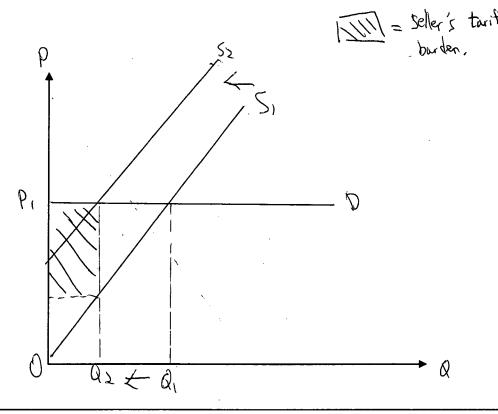
(2 marks)

(ii) 'Based on the above source, we can conclude that the current account deficit of the US in 2018 necessarily increased.' Do you agree? Explain. (2 marks)

Donald Trump, the US president, once said that imposing tariffs would only increase the revenue of the US government and the US consumers did not have to pay more for the imported goods.

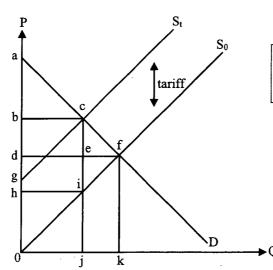
- (b) (i) With the aid of a supply-demand diagram, explain under **ONE** extreme condition that the consumers would bear **NO** tariff burden after the imposition of tariff. (4 marks) (For simplicity, the tariff is assumed to be per-unit.)
 - (ii) Indicate the tariff revenue (i.e. sellers' burden) in the same diagram.

(1 mark)



Answers written in the margins will not be marked.

(c) Economists argue that tariff may harm both the consumers and producers.



S₀: the supply curve before tariff

S_t: the supply curve after tariff

With reference to the above supply-demand diagram, complete the table below.

(3 marks)

	Before tariff	After tariff
Consumers' surplus	Area adf	Area abc
Producers' surplus	Area dfO	Area bciO

(d) The US government could impose quota to restrict imports. From the viewpoint of the US government, state ONE advantage and ONE disadvantage of using tariff instead of quota to restrict imports. (2 marks)

a) i) In 2017, 255-808 = -553, billion

In 2018, 269-891 =-622 USD hillian

It bes 63 USD billio

ii) No, because there are only show the balance on gods

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have a surplus

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Source A: Existing tunnel tolls for private cars

红	CHT (owned by the government) 支力	\$20
丙	WHC (owned by a private firm)	\$75
	\$(1,60)	

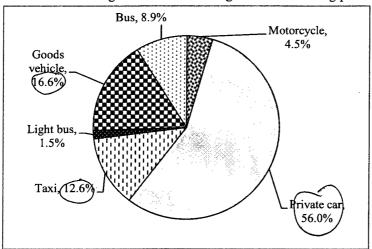
Source B: Traffic information during peak hours of the two tunnels

	Designed capacity per hour	Actual number per hour	Queue +3
CHT (1	2600 (cars)	4400-4600 (cars)	1500-3000 (metres)
WHC 🐬	4200 (cars)	3600-3800 (cars)	0 (metres)

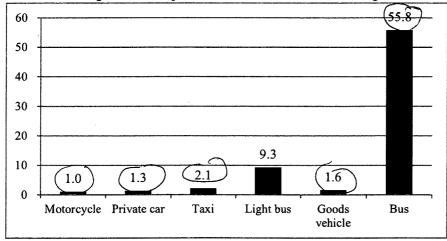
Source C: An extract of a report on traffic congestion

Traffic congestion not only affects individual drivers, but also results in inconvenience to society as a whole. Apart from the time wasted during congestion, people also need to allow extra time for the journey to cater for the uncertainty in travelling time. The stop-and-go traffic pattern during congestion increases the total operating costs of vehicles as more fuel would be consumed.

Source D: Percentage of vehicles crossing the harbour during peak hours (by types of vehicles)



Source E: Average number of persons in each vehicle when crossing the harbour during peak hours



Answers written in the margins will not be marked.

Source F: Views on cross-harbour traffic in Hong Kong

Every citizen needs to travel across the harbour. An increase in tunnel tolls affects everyone, especially the low-income group. We cannot underestimate the difficulty in negotiating any adjustment in tunnel toll of WHC. The government has no right to object to the tolls set by WHC. An environmentalist Reducing traffic congestion in cross harbour tunnels is only one tiny step. The root of the problem is that there are too many cars in Hong Kong. Channeling traffic to the under-utilised WHC benefits every road user and this allows taxi drivers to have more businesses.

(a) Refer to Source A. State ONE advantage and ONE disadvantage of providing cross harbour services by a private firm instead of the government. (2 marks)

Answers written in the margins will not be marked.

- (b) Refer to Source B. With the aid of a supply-demand diagram, explain the phenomenon in the CHT (紅隧) during peak hours. (4 marks)
- (c) Refer to Source C.
 - (i) Explain, with **ONE** example, why there may be a divergence between private and social costs during traffic congestion. (3 marks)
 - (ii) Explain why the situation in part (i) may result in inefficiency. (2 marks)
- (d) According to Sources D and E, explain why private cars may be regarded as one of the major sources of traffic congestion in the cross harbour tunnels. (2 marks)
 (Assume that the number of persons using the cross harbour tunnels per day during peak hours is constant.)

For part (e), candidates are required to present their answers in an essay form. Criteria for marking will include the use of sources and economic theories, relevant content, logical presentation and clarity of expression.

Suppose there are two cross-harbour-tunnel-toll adjustment proposals to relieve the problem of (e) congestion:

Proposal I	The government raises the toll of the CHT (紅隧) for private cars to \$75.
Proposal II	The toll of the WHC (西隧) for private cars is reduced to \$20.

With reference to the above sources and your own knowledge in Economics, discuss which proposal, proposal I or II, each of the following groups of stakeholders would prefer:

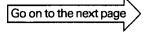
- the owners of the WHC company
- the politicians who are concerned about the income inequality in Hong Kong
- the government economists who are concerned about government revenue and/or expenditure
- ONE other group of stakeholders

(Hint: You may discuss the reasons why one group of stakeholders would prefer a certain proposal **OR** why that group would not prefer the other proposal.)

(14 marks)

(f) Suggest ONE proposal, other than tunnel-toll adjustment, for relieving the traffic congestion problem. Briefly explain how your proposal works. (2 marks)

a) Congestion Margy Social



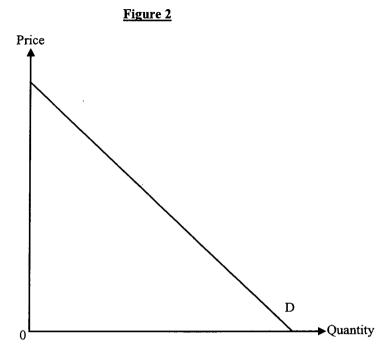
	d) Due to the Source D, the percentage of vehicles Crossing the hat harbour during peak time. The private car is
	56% this number and percentage 15 over the half of the
	total car ratio. And average number of person on the private car is only 1.3 people. But the bus have about
	55.8 people. It show that the private cors is hower the traffic and as one of the major sources of traffic
	ong Congestion in the cross harbour turnels.
d.	
not be marked	e) the The owners of the WHT Company will not
'ill not b	prefer the proposal I. Due to a big adjutement of the price of the toll. Although it will have many
ırgins w	drivers to chose WHT. But it is a non-price
the ma	competition for two two tunnel to competition. The
ritten ir	It may loss both of revenue. Also, the WHT company have a hope that they want to give
swers w	some directs have a other option. But there is a
An	cost which the monetary cost of onjoy by this tunnel
	to pass through the Hony Kong Island in a Short
	time. We may use the more expansive tagel to an
	amued the place in the Short time. So that it
	will broken the meaning of 2 tunel's fare-

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Section C (16 marks) Answer any ONE question.

- 12. ABC Electricity Limited, the sole supplier of electricity in Country A, adopts uniform pricing.
 - (a) If the marginal cost is constant, explain how the profit-maximising output of ABC Electricity Limited will be determined. Indicate the output (Q_M), the price (P_M) and the deadweight loss in Figure 2. (5 marks)



- (b) Suppose the government imposes a lump sum tax, which is a fixed amount regardless of the quantity produced, on ABC Electricity Limited. (Assume that the tax amount is smaller than the profit.)
 - (i) Indicate the after tax profit-maximising output (Q_t) and price (P_t) in Figure 2. (2 marks)

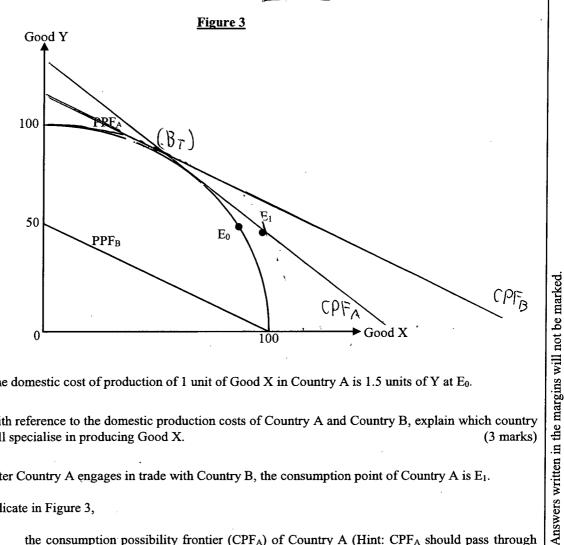
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- (ii) Explain whether economic efficiency would worsen as a result of the tax. (2 marks)
- (c) ABC Electricity Limited charges users in the urban area \$1 per unit of power consumed and users in the rural area \$1.5 per unit of power consumed. Define price discrimination and explain why this price arrangement may NOT constitute price discrimination. (3 marks)

ABC Electricity Limited planned to install new equipment for electricity supply in the rural area and asked the equipment providers to bid for the contracts. It was found that the two equipment providers in a region agreed to take turns being the bid winner.

- (d) (i) Which anti-competitive behaviour would the above case constitute? If the above case happened in Hong Kong, which conduct rule of Competition Ordinance would be violated?

 (2 marks)
- (ii) State **TWO** ways the above behaviour would harm ABC Electricity Limited. (2 marks)



Assume the domestic cost of production of 1 unit of Good X in Country A is 1.5 units of Y at E₀.

- With reference to the domestic production costs of Country A and Country B, explain which country (a) will specialise in producing Good X. (3 marks)
- (b) After Country A engages in trade with Country B, the consumption point of Country A is E₁. Indicate in Figure 3,
 - the consumption possibility frontier (CPF_A) of Country A (Hint: CPF_A should pass through (i) E_1),
 - (ii) the production point (A_T) of Country A after trade and explain your answer in terms of terms of trade, and
 - (iii) the consumption possibility frontier (CPF_B) and the production point (B_T) of Country B after trade.

(5 marks)

- Suppose Country B adopts artificial intelligence technologies in the production of Good Y, which (c) doubles her productivity of the good.
 - (i) Explain whether your answer in part (a) would be affected by the above change. (2 marks)
 - Give TWO reasons to explain why the adoption of artificial intelligence technologies may (ii) boost economic development of Country B. (4 marks)
 - (iii) Apart from adopting artificial intelligence technologies, list TWO factors that may boost economic growth. (2 marks)

Go on to the next page

	a) The oppositionity cost of producting Good X in Country A is 1x=1.57
	The opportunity cost of producting Good X in Country B is SoY=100x, IX=0.5Y Due to the opportunity cost of producing Good X is 0.5% in Country B is lower than in Country A, And Country B have a comparative advantage of producing good X than
.ed.	in Country A. So that Country B will specialise in producing
Answers written in the margins will not be marked	(i) The total output of good Y of country B is 100 unt of Good Y after technologies. The opportunity of producing Good X is 1Y and it still lower than Country A. So it will not change ii) The human expancy life year will be rised. The mean year of oducation is increased.
	iii) The grantity and the grantity of the output hereose may boost the economic growth.

the Hong Kong Examinations and Assessment Authority at a later stage.