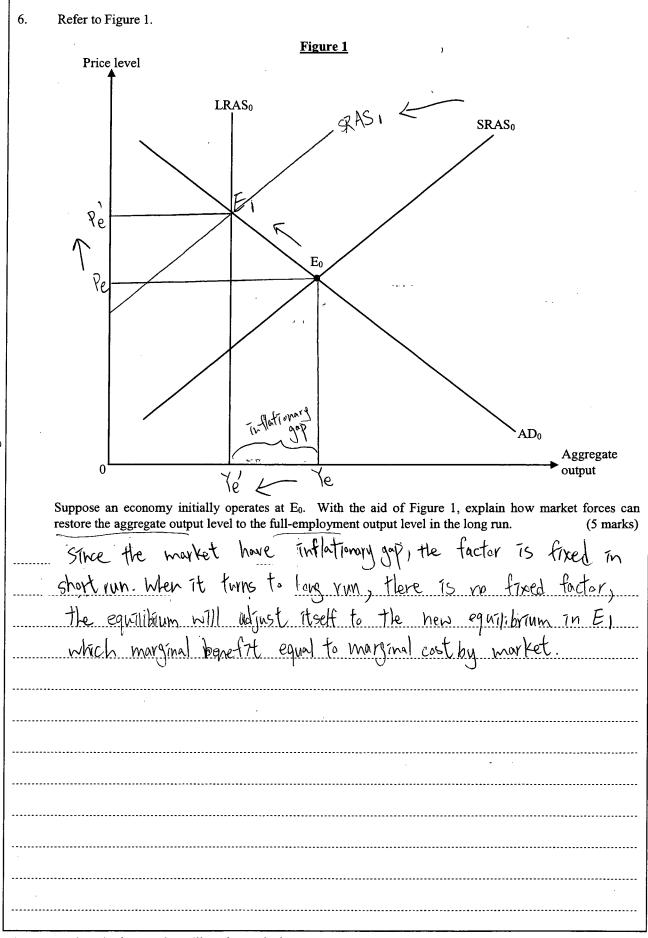
## Level 2 Exemplar

Section A (44 marks)
1. A free good must be free of charge. Do you agree? Explain your answer. (3 marks)
Agree Free good is a good people want some but not more Free good
such as sea water is free of charge. No one will pay for free good.
It is not scarce.
2. A chain restaurant providing Chinese cuisine set up a cake shop.
(a) Explain which type of expansion this was. (2 marks)
(b) List TWO possible motives for the above expansion. (2 marks)
(c) After the opening of 10 more restaurants, the firm found that its average cost decreased. State <b>TWO</b> possible reasons for this. (2 marks)
(a) Lateral expansion, they are similar type last not the same, which is food.
(b) To enjoy economic of Scale, to spread their brand name.
(c) First, enjoy economic of Scale, so that they can use the resourse
well with lower cost Second, they can lower the cost of research and
development since it is a big firm

	<u></u>
3. Below are the gross domestic product (GDP) data of a country.	
Real GDP growth rate ('aly')	
Time	
(a) Identify the phase of business cycle which point A is in.	(1 mark)
(b) Apart from increasing unemployment rate, list <b>TWO</b> general economic point A.	henomena which occur at (2 marks)
(c) State TWO losses to society caused by unemployment.	(2 marks)
(a) Consession	
(b) The GDP arouth rate is decreasing and the in	northaght is
(b) The GPP growth rate is decreasing and the indecreasing  (c) In society, the total production will decrease, and  will be not stable since the people's bad feeling  Violence (because of unemployment, less people have a	ran forgen
accreasing	и .
(c) In society, the total production will decrease, and	The society
will be not stable since the people's bad feeling	may make
Violence. Checause of unemployment, less people have a	ab ).
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4. Study	y the following inf	formation of an eco	nomy.	
		Year	Consumer price index (CPI)	
	•	2018	110	
	,	2019	117	
(a)	Calculate the in	flation rate in 2019		(1 marl
(b)	Explain ONE of level.	lifference between	using CPI and GDP deflator to n	neasure the change in the pric (2 marks
(c)			chase of government bonds by the statement with reference to the	
(a)	Inflation vot	e to 2019:	$=\frac{117-110}{100}\times100\%$ = 7	%
			ange in price level by co	
q.	7. W.	eogure by It	e producing cutput.	
( <u>C</u> )	les, open	market purc	hase can increase the	le Money supply.
	capital can	go in. It o	Uso Increase trade a	nd efficiency. But
	When their	15 move eft	Tency, 7t is more	uneven and less
	eanditu. h	then nearly	porn more and the pro	duct produced more
	1/00 [1]	lamo noflation	earn more and the property of the property of the real value	of manay decrease
	(יטנייניים	MOIN C ILLIANTON	THE YEAR VAINE	of money subscient
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5.	(a)	What is the opportunity cost of holding money? Explain.	(2 mar
	(b)	Peter owes Mary \$100 and he has no cash in his wallet. He suggests repaying M coupon (with a face value of \$100) issued by a supermarket chain. Give <b>TWO</b> econo explain why Mary would refuse to accept the cash coupon as a repayment of Peter's de	omic reasons ebt. (4 mar)
	į,	The opportunity cost of holding money is the goin of money to earn interest by lending to other.	
	(b)	First, the cash coupan is not the medium of exchang	ie, it
		only for using in the supermarket. Second, the cash co not liquider than cash, Mary cannot transfer it to	
		easily than cash.	01~4
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7. Suppose the	e outputs per unit of reso	ources of Country A and Co	ountry B are as follows	:
	· · · · · · · · · · · · · · · · · · ·	Toys (units)	Cars (units)	·
	Country A	10 1°C OR	10 IT	5T = 4C
	Country B	20 🔑 2c OR	10 120 0.5 7	C= 0-2
(a) Whi	ich good would Country	B export according to its c	comparative advantage?	Explain. (3 marks)
tran equa	sportation cost of 0.2 u	untry B trade at an exchange inits of cars is required to ntries. Calculate the gain	exchange for 1 unit	of toys and the cost is
need	$\frac{20}{10} = 2 Car$	parative advantage of resource to p	produce 1 Tay.	They need
	,	uce 1 Car only.		
l .		ir , 1 Toy = 5		
		arative advantage in	Toys so It	producat Tay
and	Import Car.			
The	goin per hút	of export of Coun	try B	
	0.8 - (0-2)	of export of County	$\mathcal{L}$	
	X <del></del>			
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	8. Study the following balance s	heet of the banking s	ystem in Country A.	
		Assets (\$million)	Liabilities (\$million)	
	Re	serves 1000	Deposits 4000	
	Lo	ans 3 000		
	Suppose the public always ho	ld \$800 million cash	and the banking system o	does not hold excess reserves.
	(a) Find the monetary bas	e and money supply	n Country A.	(2 marks)
	(b) Suppose firms withd overseas.	raw \$700 million fi	om the banking system	n and remit the whole amount
	(i) Find the chang	e in monetary base in	Country A.	(1 mark)
	(ii) Calculate the workings.	maximum possible	change in money supp	ly in Country A. Show your (3 marks)
			million =\$1800 m	
eg.	money supply	= (100c+80c)	X 4000 = 17200	million
mar	Up) (i) The monetary	base = (1800.	-700)million: \$11	million  leo million, it will  ilich ::
not p	deaxease \$700 m		······································	, , , , , , , , , , , , , , , , , , , ,
Will	(II) The decrea		1000 = \$ 2800 ha	The hard
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in I	= \$72	10 - 18co =	\$4400 millen · ·	, )
Litten	It decreas	e \$2800 m7	llion.	
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		END OF SE	CTION A	

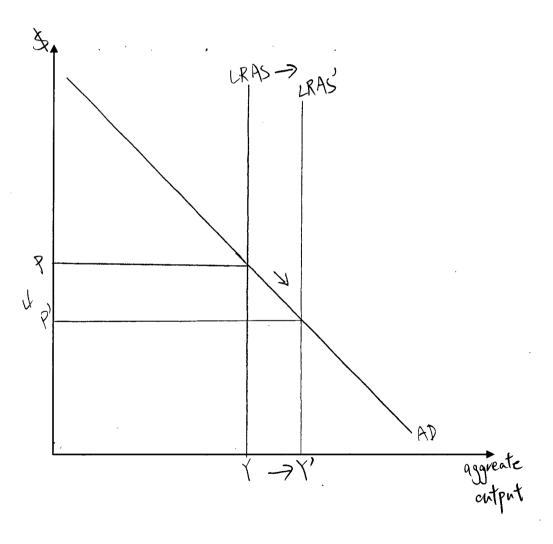
## Section B (60 marks)

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.

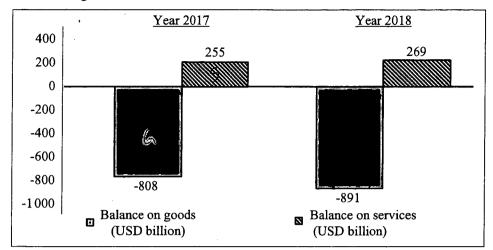
(b) Other things being equal, what will be the effects of the infrastructure development on Hong Kong's aggregate demand and long run aggregate supply in the future? How about on aggregate output? Explain your answers with the aid of a diagram. (8 marks)



	Parl	ead of obtaining bank loans to finance the infrastructure development, it is suggested that Ocean c can be listed in the stock market and issue shares to raise capital. State <b>TWO</b> advantages of ing shares over obtaining loans from banks for raising capital. (2 marks)
	coul	contribution of the infrastructure development of Ocean Park to Hong Kong's GDP in 2019 do be smaller than the total amount invested in the two hotels and the water park. Explain why statement may be correct with <b>TWO</b> reasons. (4 marks)
	(a) Oligor	oly. The features is that it have few large firm and other
	Small f	rm. It has imperfect information in the market.
	(b) As -	the infrastature development, it increase the factor, the
	Long Vi	un aggreate supply will inclease and shift to the right. The
	price	Will decrease and the aggreate output will increase since lower
narke	price,	more demand, the law of demand, people will buy more.
or pe 1	Since	In long run Itlere is no fixed factor, It can produce more by adding factor,
will n	(c) Issu	ing shares, consideration with the state of
Singi		Company can choose to relases shares to sharesholder or
TIC IIIS	hot	. But for loan, company must return interest. They can give
	1255	shares to sharesholder when there have loss. Also
S WIII	(d) H	may be correct because If the cost is too high and
IISWCI	the pro	fit cannot cover the cost. Then the output will be smaller and
۲	GDY (	ower Also, If the demand of using hotels and water pork
		ow, the GDP All be smaller than before. People may not stay
	long o	r with the two hotel and the water park.
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10. The following source shows the current account data of the US in 2017 and 2018.



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

(2 marks)

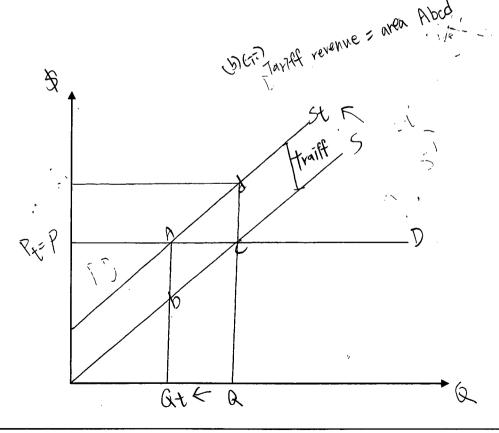
(ii) 'Based on the above source, we can conclude that the current account deficit of the US in 2018 necessarily increased.' Do you agree? Explain. (2 marks)

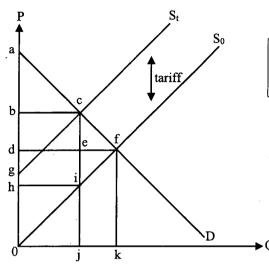
Donald Trump, the US president, once said that imposing tariffs would only increase the revenue of the US government and the US consumers did not have to pay more for the imported goods.

- (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





S<sub>0</sub>: the supply curve before tariff

St: 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 1f0	Area bc jo

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

balance on good decreased 83 VSD billion and balance on service

Increased 14 USD billion.

measure of current account deficit is the

cannot know the reserves from firm, so we could not

the demand is perfectly elastic, people only buy fixed price: In this case consumer bear no touriff

hurden, because they no need to pay more amount to buy

Answers written in the margins will not be marked.

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Traffic congestion in the cross harbour tunnels during peak hours is a serious problem in Hong Kong. For simplicity, the discussions below only focus on two cross harbour tunnels in Hong Kong, namely the Cross-Harbour Tunnel (CHT 紅隧) and the Western Harbour Crossing (WHC 西隧).

Source A: Existing tunnel tolls for private cars

CHT (owned by the government)	\$20
WHC (owned by a private firm)	\$75

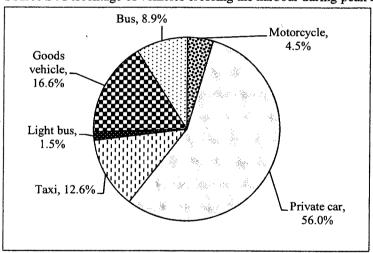
Source B: Traffic information during peak hours of the two tunnels

	Designed capacity per hour	ned capacity per hour Actual number per hour					
CHT	2600 (cars)	4400-4600 (cars)	1500-3000 (metres)				
WHC	4200 (cars)	3 600-3 800 (cars)	0 (metres)				

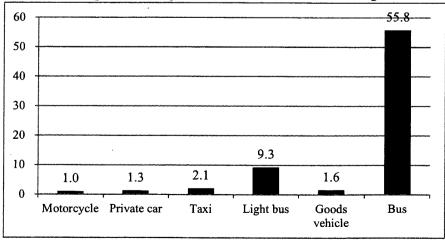
Source C: An extract of a report on traffic congestion

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

A politician	Every citizen needs to travel across the harbour. An increase in tunnel tolls affects everyone, especially the low-income group.
A government official	
Seems times	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.
A taxi driver	
TAX	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)
- (b) Refer to Source B. With the aid of a supply-demand diagram, explain the phenomenon in the CHT (紅隊) 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.

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

Proposal I	The government raises the toll of the CHT (紅陵) 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:

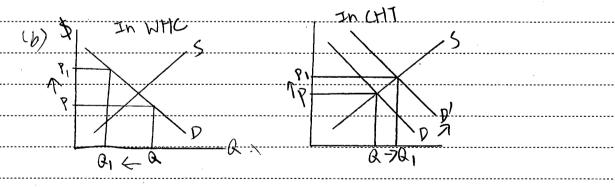
- the owners of the WHC company
- the politicians who are concerned about the income inequality in Hong Kong
- the government economists who are concerned about government revenue and/or expenditure
- ONE other group of stakeholders

(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)

ca) The advantage 75 that the venvenue of private firm is higher than government. The disadvantage is that it will increase economy hurden on public who use the services. It may be lower living-standard.



Since WHC and CHT 75 Substitude When the price of WHC 75
Increase, people useless WHC and prefer using CHT, the demand
of CHT WILL Increase.

(c)(i)There may be a divergrence between private and social costs since
it bring more time cost to other people without any
powment

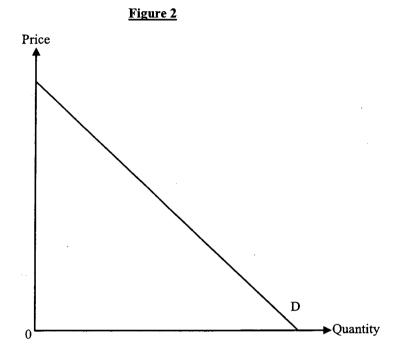
(c) (7i) It may be inefficiency since people time cost is increase, the loss of change to use these time to earn more or product more good, which have deadneight loss.
(d) It is because there is so many cars on Hong Kong and most of them are private cars and each private cars only have average 1-3 person while other is higher than this number, it is infficent:

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FND OF SECTION R		END OF CECTION D

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<sub>M</sub>), the price (P<sub>M</sub>) 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 (Qt) and price (Pt) in Figure 2. (2 marks)

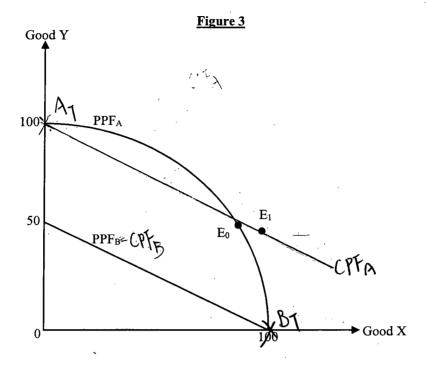
Answers written in the margins will not be marked.

- (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 E<sub>0</sub>.

- (a) With reference to the domestic production costs of Country A and Country B, explain which country 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  $E_1$ .

  Indicate in Figure 3,
  - (i) the consumption possibility frontier (CPF<sub>A</sub>) of Country A (Hint: CPF<sub>A</sub> should pass through  $E_1$ ),
  - (ii) the production point (A<sub>T</sub>) 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)

Answers written in the margins will not be marked.

- (c) Suppose Country B adopts artificial intelligence technologies in the production of Good Y, which doubles her productivity of the good.
  - (i) Explain whether your answer in part (a) would be affected by the above change. (2 marks)
  - (ii) Give **TWO** reasons to explain why the adoption of artificial intelligence technologies may 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

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