# Level 1 Exemplar

Section A (44 marks)	
1. A free good must be free of charge. Do you agree? Explain your answer. (	3 marks)
No free goods means that the quanty is larger than	M
the human wants and can be people free to use or	<b>/</b>
take. But that free grads still have it's value, it is	
cost to make it.	
	· .
2. A chain restaurant providing Chinese cuisine set up a cake shop.	
(a) Explain which type of expansion this was.	2 marks)
(b) List <b>TWO</b> possible motives for the above expansion.	2 marks)
(c) After the opening of 10 more restaurants, the firm found that its average cost decreased. Star possible reasons for this.	te <b>TWO</b> 2 marks)
a) (ateral expansion, it produce similar but not the	
Same produit, one provide Chinese cuisine the other	me
Is acala 5 a cala shor both are food but not	**********
Same product, one provide Chinese cuisine the other Is acade & a cale shop, both are Good but not the same product.	
b) Trijoy the economic of scale	
Advertisent	••••••
c) Average cost decreased, cost of production in themse, d	 O CVPGSE
factor of production seevesse	<u> </u>
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3.	Below 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 ma
٠	(b) Apart from increasing unemployment rate, list TWO general economic phenomena who point A.	nich occur (2 mar
		(2 mar
a	(c) State TWO losses to society caused by unemployment. ) widerplodution	(2 mai
		(2 mar
<i>b</i> )	) underplodution	(2 mai
<i>b</i> )	) underplodution Cost of production decrease factor cost decrease	(2 IIII
<i>b</i> )	) underplodution Cost of production decrease factor cost decrease	(2 IIIa

4.	Study	the following in	nformation of an eco	onomy.		
			Year	Consumer price index (CP	PI)	
			2018	110		
			2019	117		
	(a)	Calculate the ir	nflation rate in 2019	9.		(1 ma
	(b)	Explain ONE level.	difference between	n using CPI and GDP deflator	to measure the char	nge in the pr (2 mar
	(c)	inflation in the	e economy.' Justif	fy the statement with reference	e to the classical qu	antity theory
a)	TNA	iation rat	e in Lolf	= HAMOM 12 117-110 x 100 2		
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5.	(a)	What is	the oppor	tunity cost of	holding m	oney? Expla	in.				(2 mark
	(b)	coupon explain	(with a fa why Mary	\$100 and he ce value of \$1 would refuse	00) issued	l by a superm	narket ch	nain. Give	TWO eco	nomi	c reasons
	a) (r	ansacti	m,	Assets							
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	Dur	able,	I the	Coupon	are	easily	to	brike	in,	(`S	not.
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7. Suppose the outputs per unit of resources of Country A and Country B are as follows:									
	_		Toys (un	uits)		Cars (units	)		
		Country A	10	((	OR	10 \	7		
		Country B	20	020	OR	10 ე	T		
	(a) Which good wo	ould Country	B export ac	cording t	o its com	parative ad	vantage?	Explain.	(3 marks)
	(b) Suppose Count transportation of equally shared workings.	cost of 0.2 unlike by both coun	nits of cars ntries. Calc	is requirulate the	ired to exe	xchange for r unit of exp	1 unit of C	of toys and Country B.	d the cost is Show your (3 marks)
ed.	a) Country B 1	rend e	export	Toys	$\langle \mathcal{F}_{i,j} \rangle$	has 1	<del>a</del> C	supar à	tive
mark	advantage ,	7 20	20=	<u>ر</u>	70	= 1	it's	Thous	~
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argins w	(b)						··· <del>···</del> ·····		
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8. Study the following balance sheet of the banking system in Country A.

300	3300
3000	

Assets (\$1	nillion)	Liabilities (\$million)			
Reserves	1000	Deposits	4000		
Loans	3 000				

Suppose the public always hold \$800 million cash and the banking system does not hold excess reserves.

(a) Find the monetary base and money supply in Country A.

(2 marks)

- (b) Suppose firms withdraw \$700 million from the banking system and remit the whole amount overseas.
  - (i) Find the change in monetary base in Country A.

(1 mark)

(ii) Calculate the maximum possible change in money supply in Country A. Show your workings. (3 marks)

a) monetary base = cp + R = 800 + 1000 = + 1800 (william)

money supply = cptD = 8000 + 4000 = \$ 9800 (willim)

ba) After withdraws old monetary base = \$1800

New monthy base = Sout 3300 = Soo f 300

= tuoo(willim)

The change of monetary base = 1 for - 1100

= \$700 willing

17) New money supply 2 lost 3 los 2 \$100 hollow

m = (000 x colo = 25%

max possible change in money supply = 4100 x 257, =\$16400 willow

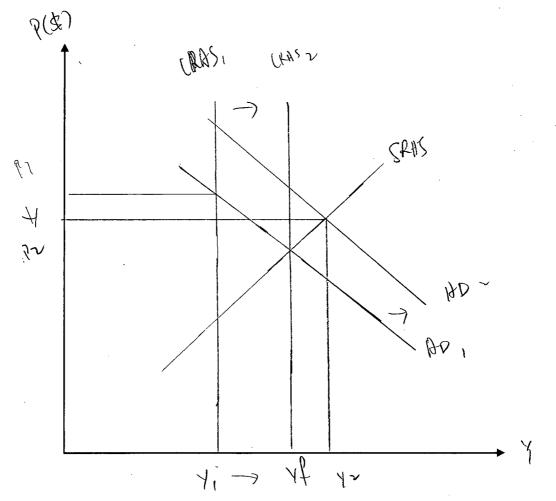
### **END OF SECTION A**

# Section B (60 marks)

- 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.

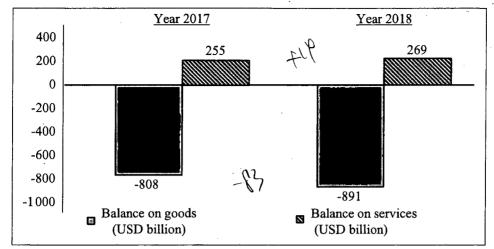
(b) Other things being equal, what will be the effects of the infrastructure development on Hong Kong's aggregate demand and long run aggregate supply in the future? How about on aggregate output? Explain your answers with the aid of a diagram. (8 marks)



	(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 <b>TWO</b> advantages of issuing shares over obtaining loans from banks for raising capital. (2 marks)
	(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 <b>TWO</b> reasons. (4 marks)
	a) onned by government that although need to disclose the finiscal information, government won't help to them pay
	any money.
	b) It TS expected the Therastueture development Can
пагкеа.	attract more tourists stay longer in Hory Kony,  The long run aggregate supply will therease from  (RHS, to URBS). AD Therese from HD, to ADV shift vightwards
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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.

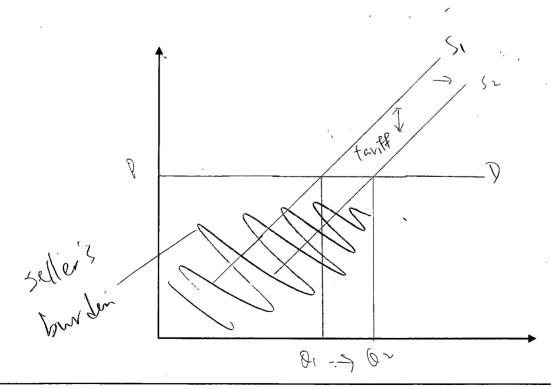
(2 marks)

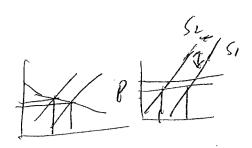
Answers written in the margins will not be marked

(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)

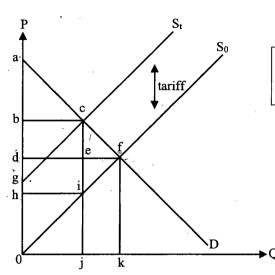
Donald Trump, the US president, once said that imposing tariffs would only increase the revenue of the US government and the US consumers did not have to pay more for the imported goods.

- (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)





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



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 abu
Producers' surplus	Area after drok	te Area hio

(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)

From 2017; -808 to 2018; -891, visible trade (goods) it defruit and secreme Thereave from 2018; -891, visible trade (contra), it credit from and mureuse from 2011; 2015; 2015; 201. if credit.

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11. 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

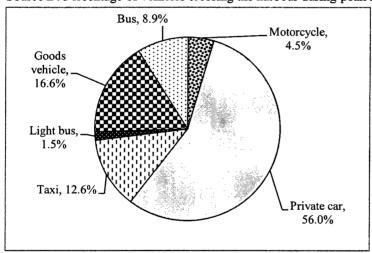
Source B: Traffic information during peak hours of the two tunnels

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

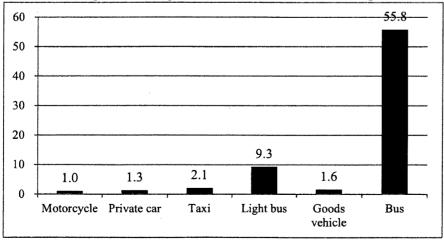
Source C: An extract of a report on traffic congestion

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. A government official 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 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.
  - (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) Adv = the profit earned by private tirm will higher than
the government.

Disadv = A private from Government can set a fixed coef
to control the cost of fee but private from work.

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P was 4600 - 6600 cars its actual

humber 3 large than expected.

The price keep constant and

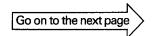
the quantity Trivealed from 01 to

Or, and shortage is exits.

(i) Social cost will therease because of the traffic Congestion weed to spend a larger time on Jamey, is an theorresience to the social society. The private cost will therease,

·	The time of waiting the traffic sty conjection, man personally have alternative conf.
Answers written in the margins will not be marked.	d) It's because of private cars were the most of the Cars are crossing the harbory during peak hows, It or but it have a less feate numbers of parson in those yielder, it contains 1.3 but the bus contains 15.8 Private cars have the most car but less person, it may affect to the traffit traffic conjection.  e) prosecuted proposal I for the owners of little conjugated to the traffit traffic conjection.  e) prosecuted proposal I for the owners of little conjugated to the past to book, the profit hall goth less from the past to book, the profit hall goth less from the past to book and the through the confidence conversed the throme translety. In they have the during the cost to two can help narrow the theory decrease the cost to two can help narrow the theory decrease the contained about querously versure and expanditure the governments has no rights to object to the tills set by write Reducing the cost of little can let the government prifit hereary, government expenditure, will revenue to have trained more busings, from the present to have trained more busings, from the profit to the file of the present to have trained more busings, from the profit to the present to have trained more busings, from the profit to the present to have trained more business.

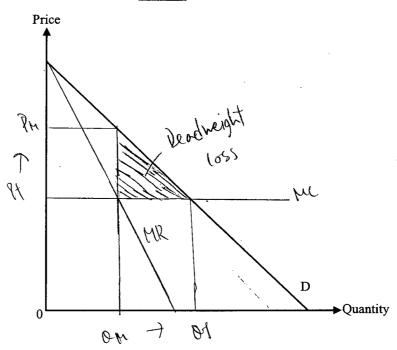
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-	END OF SECTION B



### 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)

Figure 2



- (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)

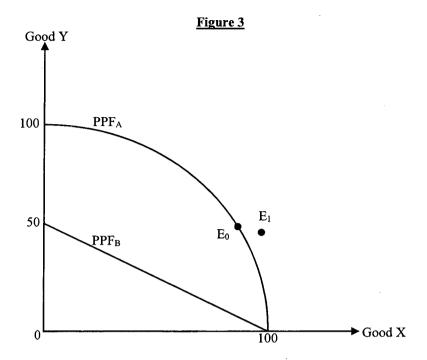
ABC Electricity Limited planned to install new equipment for electricity supply in the rural area and asked the equipment providers to bid for the contracts. It was found that the two equipment providers in a region agreed to take turns being the bid winner.

- (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)

of It's not a price discrimination because it in a not same area authorgh It have a same product,

13. Refer to Figure 3. PPF<sub>A</sub> and PPF<sub>B</sub> are the production possibility frontiers of Country A and Country B respectively. E<sub>0</sub> is the consumption point of Country A without trade.



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<sub>1</sub>.
  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  $(A_T)$  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)

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

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