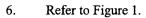
## **Level 5 Exemplar**

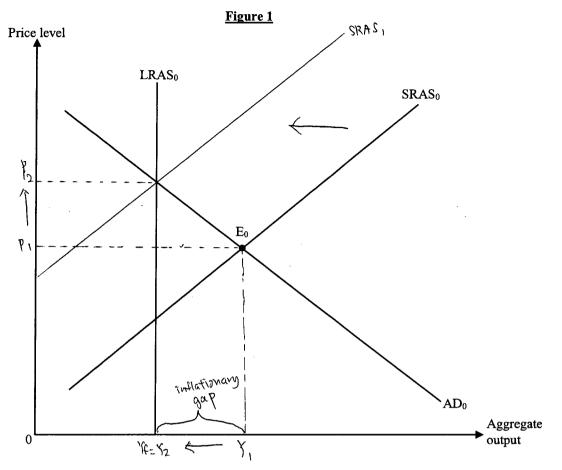
	Section A (44 marks)	
	1. A free good must be free of charge. Do you agree? Explain your answer.	(3 marks)
	Yes Because people are unwilting to pay for extra unit of	free
	good such as sand in desert. The supply of tree good is unim	itted
	and can satisfy all human's need:	
	A chain restaurant providing Chinese cuisine set up a cake shop.	
	(a) Explain which type of expansion this was.	(2 marks)
arked	(b) List <b>TWO</b> possible motives for the above expansion.	(2 marks)
swers written in the margins will not be marked	(c) After the opening of 10 more restaurants, the firm found that its average cost decreased. possible reasons for this.	State TWO (2 marks)
ns will	a) Lateral expansion. The cake sold is related to chinese chisine	dazdw
nargi	are both food but not directly competitive.	
n the 1	b) To diverse the risk over variety of products and make	-ang
itten i	use of the brand name to goin more profit.	
ers wr	() The firm purchases inputs in bulk and obtains discount. T	inus,
Answ	the average cost decreased Also, the advertising cost can b	e
	spread by more types of products.	
	·	

3. Belov	w 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 mar
(b)	Apart from increasing unemployment rate, list TWO general economic phenomena who point A.	nich occur (2 mark
(c)	State TWO losses to society caused by unemployment.	(2 mark
9) Reces	Sìoh	
	ecrease in general price level and the incentive to i	nvest
b. A. d.	Correspondence de la companya del companya de la companya del companya de la comp	
	sume	· · · · · · · · · · · · · · · · · · ·
and con	sume	
and con	<b>,</b>	
and con	sume	

4.	Study	y the following i	information of an eco	onomy.	
			Year	Consumer price index (CPI)	
			2018	110	
			2019	117	
	(a)	Calculate the	inflation rate in 2019	9.	(1 m
	(b)	Explain <b>ONE</b> level.	difference between	using CPI and GDP deflator to	measure the change in the p (2 ma
	(c)			rchase of government bonds by the statement with reference to	
<u>a)</u>	In11	ation rat	$e = \frac{117 - 110}{110}$	- x (00)/ <sub>0</sub>	
			= 6 36%	in to 2 Ma fig	
b)	(PT		= 6 36%	in to 2 Ma fig	
<i>p</i> )	CPI	measoves v	= 6.36°/o prices of all consumer	car to 3 sigs fig.	orts. Capp dellatur
-συ] ρ)	CPI W Me	Meashyes V ashves the	= 6.36% prices of all consumer prices of pr	cax to 3 sigs fig goods including imp coducts produced by the	ports. CIDP diflatur he economy. The
.onl .cha	CPI ny me	measoves v asoves the n the pm	= 6.36% prices of all consumer prices of pr	cox. to 3 sigs fig.  goods including imp coducts produced by the	ports CIDP deflator ne economy. The ter reflect the
b) onl cha	CPI ny me nge i t of	measoves vasures vasures the pril	= 6.36% prices of all consumer prices of pr	cox. to 3 sigs fig.  goods including imp coducts produced by the using CPI can bett	ports CIDP deflator ne economy. The ter reflect the
on! cha cha cost	CPI ny me nye i t of The	measoves vasures vasures the nthe priliting.	= 6.36% prices of all consumer prices of price	cox. to 3 sig. fig.  goducts including imp  coducts produced by the  using CPI can bett	ports. Capp deflator he economy. The ter reflect the at $MV = PY$
b) cha cha tzc1 c)	CPI ny me nye i t of The	measoves vasures vasures the nthe priliting. Classical c	= 6.36% prices of all consumer prices of pr ce level by wantity theory inpply , V =	cox. to 3 sig. fig.  goducts including imp  coducts produced by the  using CPI can bett  y of money states the  velocity of money in	norts. GDP deflaturate reconsimy. The ter reflect the at MV = PY with is constant
b) cha cha tzc1 c)	CPI ny me nye i t of The	measoves vasures vasures the nthe priliting. Classical c	= 6.36% prices of all consumer prices of pr ce level by wantity theory inpply , V =	cox. to 3 sig. fig.  goducts including imp  coducts produced by the  using CPI can bett	ports. Capp deflator he economy. The ter reflect the at $MV = PY$ with is constant
(d	CPI  when  t of  The  ce  Me  The  And  The  The  The  The  The  The  The  Th	meashves vasures vasures the nthe priliting. Classical c	= 6.36% prices of prices o	cox. to 3 sig. fig.  goducts including imp  coducts produced by the  using CPI can bett  y of money states the  velocity of money in	ports CIDP deflator he economy. The ter reflect the at MV = PY Mich is constant onstant. When the
cha cha cha cha cha cha cha cha cha cha	CPI  y me  ye i  t of  The  re M  pric	measoves vasures vasures the nother prilitating classical classica	= 6.36% prices of all consumer prices of pr ce level by  unantity theory ind Y = but howers governing	cox. to 3 sigs fig.  goods including improducts produced by the lusing CPI can better the large of money which is coment bonds from the	ports. CIDP deflator he economy. The ter reflect the at MV = PY Mich is constant onstant. When the market, the mone
cha cha cha cha c) 	CPI  y me  nge i  t of  The  re M  ply k	measoves veasoves veasoves the nthe product of the production of t	= 6.36%  prices of all consumer  prices of pr  ce level by  untity theory  ind Y = but  hoises governing  e leading	cox. to 3 sig. fig.  goods including improducts produced by the  using CPI can bett  of money states the  velocity of maney w  put level which is a  ment bonds from the	ports. CIDP deflaturence economy, The ter reflect the at MV = PY Mich is constant onstant. When the money increase in
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cha cha cha cha co co whe gev	CPI  y me  nge i  t of  The  re M  ply k	measoves veasoves veasoves the nthe product of the production of t	= 6.36%  prices of all consumer  prices of pr  ce level by  untity theory  ind Y = but  hoises governing  e leading	cox. to 3 sig. fig.  goods including improducts produced by the  using CPI can bett  of money states the  velocity of maney w  put level which is a  ment bonds from the	ports. CIDP deflaturence economy, The ter reflect the at MV = PY Mich is constant onstant. When the money increase in

5.	(a)	What is the opportunity cost of holding money? Explain.	(2 mark
,	(b)	Peter owes Mary \$100 and he has no cash in his wallet. He suggest coupon (with a face value of \$100) issued by a supermarket chain. Give explain why Mary would refuse to accept the cash coupon as a repayment	e TWO economic reasons at of Peter's debt. (4 mark
λ)	The r	wminal interest vot financial assets.	when how hold
		you give up the returns of accets such as	
<i>b</i> )	The o	ash coupon is not generally accepted as it	can only be
nse	d in	sperific supermarket chain. Besides, the	cash coupon is
		as unit of an ount since the prices of	
		ash dollar as unit	
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Suppose an economy initially operates at  $E_0$ . 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)

At Eo, the output level Y1 is above the full-employment output Yf
There is a inflationary gap the overproduction in the short run.
In the long run, the inflationary gap will lead to an upward
pressure on factor prices such as wages. The cost of production
will increase the snort-run aggregate supply will decrease and
exitts from SRASo to SRASi. The aggregate extput level will rectore
from Y, to Y2 and the inflationary gap will be eventually
closed The price level will Thursase from P, to Pz
·

	7. Suppose	the outputs	per unit of reso	ources of Co	ountry A	and Co	untry B are	as follo	ows:		
				Toys (u	nits)		Cars (un	nits)			
		!	Country A	10	1(	OR	10	17			
	ĺ	ļ	Country B	20	0-5 C	OR	10	27		lc=	: 1.25 T
	(a) W	Vhich good	would Country	B export ac	ccording	g to its co	mparative				(3 marks)
	tra ec	ransportation	untry A and Country A and Coun	nits of cars	s is requ	uired to	exchange i	units of	of toys unit of	to 4 units toys and	l the cost is
rked.	a) The opi										
oe ma	truntscago	M.cxt	if count	in 13 1	hrogne	Ing.	ti IJ	<u> 20</u>	= 0	.5 C .	<u>:</u>
Il not	Since o.s	<u>3.C. 人</u> 1	ic , bun	try B	has	lower	K 3650)	rtuni	ity.	1201	and
ıns wı	comparative	advan	tage in	produ	cing.	tsys.	.eval.T	1C20N1	ntru	JBv	IIK
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ritten in	b) The e	sxchange									
STS W											
Answe	The gain	1 per n	nit of exp	port of	Con,	ntry r	B = 0	) - 8 -	_ ( 0	· 5 t o	7777
							= 0	· 2 C	4		
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			••••	··········		·					
							·····				

Assets (\$1	million)	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)

٥)	Monetary	base =	- Cp +	R	 	 	
	J		,				
		-	= 800 +	1000	 	 	
			A10-	. 10-			
			- \$1800	million	 	 	

Money	SNEHN	2	(64	·Þ	 	 	
J			Υ				
		2	4 668	4000	 	 	

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bi) (hange in		= (1wo - 700 t	800) - 1800

II) The new	VP CP V VP	2	1929	- 7n	5 \$ 3 3 3 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	מנוודמ	
<b>V</b>							
The required	VOSEVVE	ratio	ح	4795 1920	$\times 100)^{\circ} =$	25']。	

The	New	deposit	 ٤	300	÷	25%	J	\$1200	million	
		1	 			4				-

The New Money	NIGARE	= 1200	+810	= \$2	-000 h	allion .
	- ' '					
The maximum	nassible ch	uhae in	NAMM	Nague	٤ 2	050 - 4800

= -\$700 million

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### **END OF SECTION A**

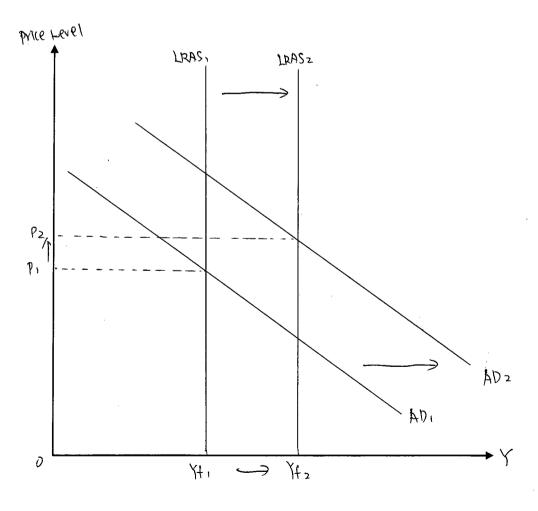
Answers written in the margins will not be marked.

### 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.

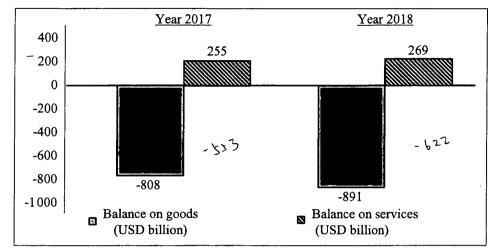
(b) Other things being equal, what will be the effects of the infrastructure development on Hong Kong's aggregate demand and long run aggregate supply in the future? How about on aggregate output? Explain your answers with the aid of a diagram. (8 marks)



- (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 **TWO** 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 **TWO** reasons. (4 marks)

a) Obligopoly. There are a few dominant sellers in the market and
there are entry barriers to the market.
b) since there is more infrastructure in Hong Kong, the production
capacity increases. The long-run aggregate supply will increase
and shifts from LRAS, to LRAS, At the same sime, the instel will
attract more tourists to Hung King which mireases the value of expirt
of services. The net value of export increases. The aggregate demand
will thus increase and miffs from Abi to Ab = The aggregate output
Will increase from 17f1 to 17f2 while the change in price level TS
un(Athin
C) There is no obligation for the ocean park to redeem maturity
for shares but there is interest for obtaining loans from banks
Also, issuing shares will not increase the liabilities to assets ratio
but stalning loans will. The Ocean park will have to pay higher
interest rate and more difficult to optain loans from bunk in the
future if the ratio increases.
d) Part of the amount invested in the two notels and the water
park may not be invested in 2019. Thus, these amount are not
counted as the value of production in current year which is 2019
besides, the production of the infrastructure may includes the
imported materials which are not the products produced by
resident - producing units in Hong Kong. The value of these
imported materials should be deducted from the amount invested.
Thus, the contribution to GPP in 2019 of the infractive could
be smaller than the total amount invested.

### 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)

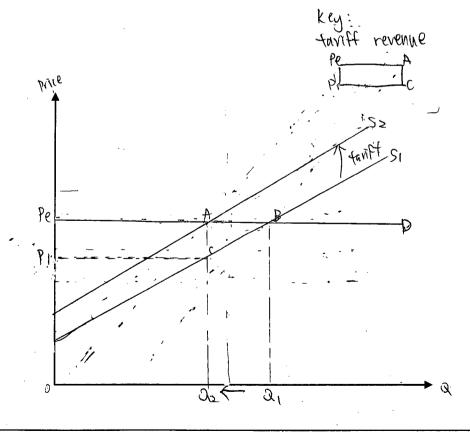
(ii) 'Based on the above source, we can conclude that the current account deficit of the US in 2018 necessarily increased.' Do you agree? Explain. (2 marks)

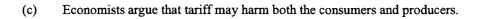
Donald Trump, the US president, once said that imposing tariffs would only increase the revenue of the US government and the US consumers did not have to pay more for the imported goods.

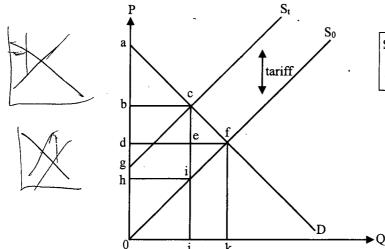
- (b) (i) With the aid of a supply-demand diagram, explain under **ONE** extreme condition that the consumers would bear **NO** tariff burden after the imposition of tariff. (4 marks) (For simplicity, the tariff is assumed to be per-unit.)
  - (ii) Indicate the tariff revenue (i.e. sellers' burden) in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

(1 mark)

Answers written in the margins will not be marked







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

S<sub>t</sub>: 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 adc
Producers' surplus	Area dfo	Arpa 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)

(A)) The current account - balance on goods + balance on services.
The current account decreases from (-808+ 255)=-\$553 pillion to
1-1917 269) = -\$622 billion - The balance on goods decreases from
Inzol7 in 2018 -808 to -891 by \$83 billion while the balance on Services Increases in2017 inzol8 from 255 to 269 by \$14 billion.
Ti) No. The current account also includes net income from abroad
and transfer payment which are not shown in the source. Thus,
we round make this conclusion.
bi) When the demand is perfectly elastic, an increase in Tariff will
any decrease the supply. The supply curve shifts from S, to Sz The
chantity decrewes from 2, to 22 while the price remains at pe.

Answers written in the margins will not be marked.

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 紅陽) and the Western Harbour Crossing (WHC 西陽).

Source A: Existing tunnel tolls for private cars

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

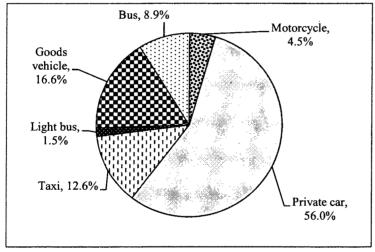
Source B: Traffic information during peak hours of the two tunnels

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

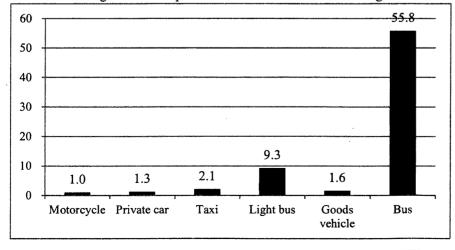
Source C: An extract of a report on traffic congestion

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.

# 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. 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)
- 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.

(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.

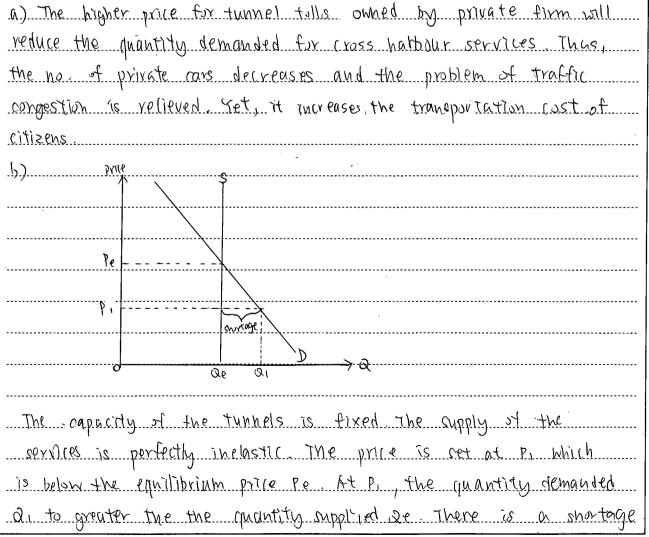
With reference to the above sources and your own knowledge in Economics, discuss which proposal, proposal I or II, each of the following groups of stakeholders would prefer:

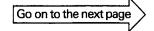
- the owners of the WHC company
- the politicians who are concerned about the income inequality in Hong Kong
- the government economists who are concerned about government revenue and/or expenditure
- ONE other group of stakeholders

(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)

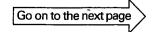




of cross - harbour services. Thus, there is a song queue in the CHT.
(1) Daving traffic (ongestion, an extru unit of car using the
tunnel will increase the time cost for other car drivers in the
queue mathint compensating them Besides, the other drivers have to
pay a higher sperating cost since # more fuel is consumed as
shown in source C. They are not compensated either. Thus, there
is a divergence between private and social cost.
(17) When the social cost is greater than private cost, there is
an overproduction, At this output level, the marginal cost is
greater than the marginal benefit. There will be deadweight loss
and Inefficiency
d) According to source by private car takes up 56.01/2 of the
whices crossing the harbour during peak hours. It is the majority
However, the everage humber of persons in private car is unly 1.3
as shown in source i- It shows that bilingte care are the most
majority of rehicles crossing the harbour and carrying very few
number of persons. Thus, it is the major source of traffic
Congest un.
e) The owner of the WHT Company would prefer proposal I. The services
of CHT and WHI are substitutes. When the top of CHT increases to
\$75, the demand for WHC will increase. Thus, The total revenue of
the MIC company will encrease For proposal I, it will reduce the
total revenue of WHI company if the top occreases from to \$20.
¬¬¬
The pricious would prefer proposal I since most private cars are anned
by the rich. Increasing the tall of CITT to 975 will increase the
travel cost at the vich without affecting the poor who take
public transportation mostly. The Income of vich decreases and the
mome gap is narrowed. Thue, the Income iquality is improved.

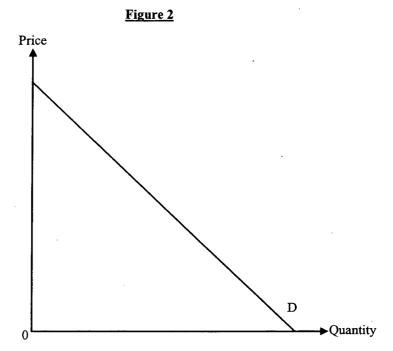
The government economists will prefer proposal I. The viginal tall
is set at \$25 which is far below the equilibrium price thus, there
is serious traffic congestion and shortage of the CHI services
Increasing the foll ratt to \$75 which is closer to the equilibrium
price may result in a greater percentage increases in price and a
smaller percentage decreases in quantity since the demand is inclastic.
Thus, the government revenue will increase
Last but not least, the environmentalist may prefer proposal I.
Since the toll of CHI increases to \$75 which is equals to make af WHC, the travelling cost of private car owner is higher.
This can provide incentive for owners of private car to take more
public transportation to save the cost. The pullic transportation
emitts fewer meenhouse gases and carries more people each
time. Thus, it is more environmentally friendly compared to teler
diwing private cars.
t) (anstructing more tunnels. This increases the supply of cross
harbour services and diverse the massive demand over more options.
of tunnels. Then, the shortage of service can be relieved and so
as the to problem of traffic congestion.
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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)



- (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)

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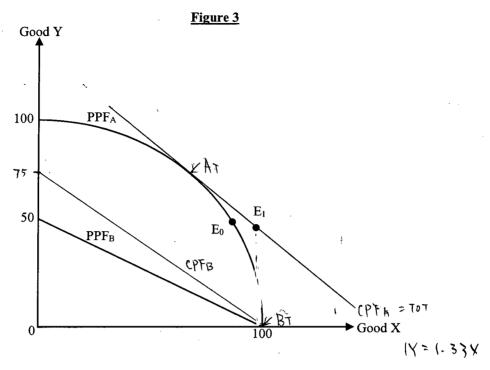
- (ii) Explain whether economic efficiency would worsen as a result of the tax. (2 marks)
- (c) ABC Electricity Limited charges users in the urban area \$1 per unit of power consumed and users in the rural area \$1.5 per unit of power consumed. Define price discrimination and explain why this price arrangement 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)

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  $E_0$ .

1X = 1.2 ) IX => 1X

- (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)

	a) the apportunity cost for country A to produce 1 x 13 1.5 Y.  The apportunity cost for country B to produce 1 x 15 1.5 Y.  Since o.5 Y ( 1.5 Y, country B has power apportunity cost in producing good X thus, country B roll specialise in the production of opod X.  The new apportunity ost for country B to produce 1 x = 100 = 1Y.
not be marked.	which is still stage lower than 1.5 Y of country A. Thus, there would be no effect and country B ramains to export good X  (7) The productivity of country B increases and the quality of goods  Improved which can be sold in better price  (1) Subsidising tertiary education and importing of medical technology.
Answers written in the margins will not b	Triang to the tr
Answers writte	
	Trade where it is tangent to the PPFA

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