Paper 4

Emerging economies and the way out of a recession

During the recession of 2009 several economists forecast that some emerging (fast developing) economies would perform better than the developed economies. One indicator of this, they said, was the strength of the exchange rate of the currency of some emerging economies against the US dollar. For example, between November 2008 and July 2009, the Brazilian currency rose 11.4% against the dollar and the Indonesian currency rose 10.2%. Another indicator was the forecast growth rate in GDP as shown in Table 1.

	2009 %	2010 %	
US	-2.7	+1.4	
UK	-3.5	+0.3	
Germany	-4.3	+0.3	
Japan	-6.5	+0.4	
Hong Kong	-5.9	-0.3	
China	+6.0	+7.0	
Singapore	-7.5	+1.9	
Brazil	-1.5	+2.7 +1.5	
Columbia	-1.0		
India	+5.0	+6.4	
Indonesia	-1.3	+0.6	

Table 1: Forecast growth rate in GDP for selected countries

Emerging economies are often dependent on exports to achieve an increase in GDP. Some economists suggested that it would be better for their economic growth if these countries were to concentrate on domestic demand rather than exports.

China, in particular, they said could lead the world out of the recession if it relied increasingly on domestic demand. Indeed, the Chinese government encouraged a shift from export-led industries to programmes aimed at improving the Chinese infrastructure in order to create jobs and thus increase consumption of Chinese goods. Banks were encouraged to make borrowing easier in order to create more credit for consumers and businesses. The government started a massive fiscal stimulus and increased its forecast of GDP to a growth rate of 8.3% in 2009 and 10.9% for 2010 (previous forecast figures were 6.0% and 7.0% as in Table 1).

However, other economists do not accept that there should be an emphasis on domestic demand. They argue that trading links are the strongest evidence of the emerging economies' ability to grow. They state 'no emerging market that adopted an export-led growth model has subsequently needed to break away from it – including China'. China's exports as a percentage of GDP are 32% compared with only 13% for the US. Smaller Asian countries are even more dependent on exports; Singapore's ratio of exports to GDP is 234%, Hong Kong's is 169%. It will be difficult for economies such as these to increase domestic demand and reduce their dependence on export-led growth.

(Source: Financial Times: June 12 2009. Table source: Economist p105 April 18-24 2009)

Question 1(a)

Explain what is meant by GDP.

Mark scheme

The Gross Domestic Product (GDP) measures the value of economic activity within a country. Strictly defined, GDP is the sum of the market values, or prices, of all final goods and services produced in an economy during a period of time. [3] (For stating Gross Domestic Product 1 mark only)

Example candidate response

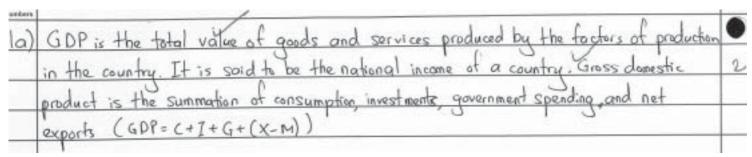
Qual & GDP mestic Product 00 00 Ronds 100 120 eal from abload National GDP + nel- ucome Product 2 => GIDP = GINP-net & income from abroad

Examiner comment

This candidate had an understanding of the meaning of GDP, and stated that it was for a given time period and expressed as a monetary value.

Mark awarded = 3 out of 3

Example candidate response



Examiner comment

This candidate gave an explanation of GDP but omitted to state it was for a given period.

Mark awarded = 2 out of 3

								/
19	GDP	stand	for	Gross	Dor	restic	Prody	ict.
-	It den is ussue with 10	ler mine	A hi	gh co	untry	with	high	GDP
	is ussuc	ally indica	tich	count	try,	while	COUNT	ru
	with 11	ow GD	P te	nd to	be	Poor	Count	+ 5 -
	GOP :	shows +	the a	rood on	11-1	1	e an	
			0					

Examiner comment

This candidate gave a poor explanation which did not include any reference to monetary value nor to a time period.

Mark awarded = 1 out of 3

Question 1(b)

The article says that banks were encouraged to make borrowing easier. Explain what this might mean and why the government might have thought this was necessary.

[3]

Mark scheme

It means more available credit, easier to get; or credit at lower interest rates. This would be likely to increase national income by the multiplier process. (A descriptive reference to the process is sufficient; there is no need to use the actual term) [3]

Example candidate response

P)	The statement means that the banks would allow individuals & and firms to borrow	1.2
	money more easily by lowering the interest rate. This would allow more credit for	2
-	consumers and businesses and hence increase domestic consumption and investment. Since consumption and investment are components of the GDP, the GDP would thus increase,	T
Ĩ	indicating economic growth.	-

Examiner comment

This candidate clearly explained the meaning of the phrase and the reason why easier borrowing might be necessary to stimulate economic growth.

Mark awarded = 3 out of 3

Paper 4

Example candidate response

(b) A in a period of recession, the convemption level goes down. The of saving stranget is being done. May they are in a period of recession, unemployment if high. So by encouraging borrowing from bank, will year to	
are in a period of recession, unemployment if high.	
investment in the country where employment will increase	
when the employment will increase then they there will	
be more consumption. This little by little it will be	
the way out of receivion.	

Examiner comment

This candidate attempted to answer the question but the answer did not direct itself explicitly to the phrase which should have been explained. Instead the answer began by describing what happens to consumption in a recession.

Mark awarded = 1 out of 3

Example candidate response

b. In order to create more credit. For consumers and	
business Thus the government. Sharled a mussile	
Fiscal shimulus and increased its forecast of GDP	
to a growth rate of 8.3% in 2009 and 10.9%	
For 2010 which means with the bank borrowing	****
there had been a married increased of 2.6% in	0
The GRP MAR (2

Examiner comment

This candidate mentioned credit but did not answer the question about what the phrase meant nor why the government might wish to increase credit.

Mark awarded = 0 out of 3

Question 1(c)

Is there enough evidence in the article to support the view that there has been an improvement in the economic situation of emerging economies? [6]

Mark scheme

Use the figures for specific exchange rates, and figures for GDP – expect to see examples of emerging/developing countries compared with developed countries. But they are only selected countries, and for only two years and they are projections not actual figures. Exchange rate figures may mean exports become more difficult to sell. [6] [Maximum 4 for one side of the argument only]

Example candidate response

4	The table & shows future growth rate in GDP
'	of different - countries, in which all the emerging
	economies have "increase in thear Grop. Also the
	article says that - the exchange rates of emerging
	economies increased with respect- to \$US.
	However, increase in ODP doesnot show that-
	The economic situation has become better. Due
	5
	- population : a greater rise in population wan GDP
-	means that economic situation is worsening.
1	- inflation = Rise in ODP may have caused demand
	pull inflation of the rate of inflation is high.
	- Quality of life a vicease in GDP doesnot tell us
-	about the quality of life.
	- memployment may have mereased due to fise
20	, there is endence not sufficient endence to
su	post the men that there has been an implor-
eme	it is economic cituation of developing economies.
	4

Examiner comment

This candidate used the information in the article to illustrate an improvement in the economic situation of the countries but also suggested reasons why this information was not sufficient to draw a definitive conclusion.

Mark awarded = 4 out of 6

Las la 1	and the second sec	1	ence. I D	stated	that	emerg	ing	economies	are often
all further and the	en ege	orts to	achieve an	increase	in	GDP	but	no punc	Annual
15 given. B	esides,	exchange	rate the	- of the	Unre	only fo	r of	10, empr	2000
-contrartes	myumst.	HIC V)	nollar h	not give	n, 0	nly the	tiqui	os of Br	azillicond
Indones; an a	currency	given, i	me indicat	for was	not	enough	to	show an	improvement.
							_		
	12222						7	/	

Examiner comment

This candidate mentioned that emerging countries are often dependent on export-led growth and did suggest that the information about this was not sufficient to indicate whether there had been an improvement in their economic situation. However, there was no mention of other indicators which might prove useful, nor much mention of other information in the article.

Mark awarded = 2 out of 6

Example candidate response

(0)	No. There was no evidence shown on the rate of inflation peer in each	
	country. An increase in inflation will lead to an increase in prices of goods	
	and services. Inflation will tend to increase the GDP of a country. A	
	country will high inflation such as Japan will show a faster growth rate	
	in GDP compared to a country with low Brinflation rate such as indonesia.	
	There was also no evidence shown on the balance of payment of each	
	country. Some countries rely on expons for economic growth while some	
	very on domestic demand. The balance of payment of a country will	
	show the ventability of exports in a in order to allow economic growth.	
	There was also insufficient evident to show on the exchange rate.	Γ
	GDP is calculated in the currency of its own country. The value of	A
	exchange rove fluctuates from day to day. Therefore, the value of the	-71
	GDP of each currency in a currency may be inaccurate.	1

Examiner comment

This candidate wrote about the level of inflation and the balance of payments. Although these two indicators might be used to consider whether there was an improvement in the economic situation of a country they were not relevant to the article given in the question which did not contain any statistics for these indicators.

Mark awarded = 1 out of 6

Question 1(d)

Identify the two policy approaches suggested by economists in the article and discuss whether there is a conflict between them. [8]

Mark scheme

An increase in domestic demand to encourage growth and export-led growth. 2 marks Conflict? Different approaches but same aim of growth 2 marks increase exports improves balance of payments and increases injections and GDP; increase domestic demand will also increase injections and help increase GDP. No conflict. 2 marks Increase domestic demand may increase incomes and increase imports which may need to be offset by further export growth. A possible conflict. 2 marks [8]

[A general description of fiscal and monetary policy; 2 maximum]

policy approach suggested by economists growth by increased 15 domestic demand in order Chinese CrfO was utilised China I'm Drove introstructu goods policy Suggested increosing consumption of the second the Fond Hong hey state emerging economies exports 700 0200 CON COMP. Such GPP exports Singapore have an extremely high ratio achieve economic on exports NOON 10 an growth - achieving policies an economy were exis tween these two it would have Dased policy mpose onism omesti demand competing with the Dreven Sale measures mport trom domestic goods ha Competi 00.10 223034 a country ese measures hid no expano 00 toce shortage the domes heavil QXP 50 Orbw Can in goods ports ore exces revenue generated Furthermore ho 2000P the pends on demand elastici nullifie O government loweve policies GD ria palance Policies ìS bossible expor in quantities 20000 bratectionism loca industries 2xpand Dravide internationa competitor in the tuture become in the mort and 0

This candidate identified the two policies mentioned in the article as the need to support an increase in domestic demand or the need to support export-led growth. The answer was then directed to the second part of the question which asked whether there was a conflict between the two aims. Although there was a statement in the last paragraph which refers to a way to lessen any conflict, the answer could have been improved by further comment on the possible similarities between the two policies.

Mark awarded = 6 out of 8

Example candidate response

-	/ expansionary
)	Two policy are fiscal policy and monetary policy . if contractionary fiscal
Ι	policy is used , tax will be reduced but increase in government spending.
	while contractionary monetary policy is lower down interest rate and
	incucases in money supply. If countries were to doncentrate on
	domentic demand inther than exports, then expansionary
T	final power will help to increase domentiz dephand because
	a lower tax means people will have now disposable income to spend,
	thus aggregate demand will be higher . while, countries to concentrate
	more on trading links, can be increased by expansionary monetary
1	policy, because lower interest but people will tend to spend more
	thus thus appresate demand higher. An increase in money supply
1	will lead to a drop in exchange inte of amency, export
	will increase. No confirst between them, since inter reduce in tax
-	and tatevent are will help both achieve domestic demand and
+	rading links.
t	2
t	

Examiner comment

This candidate's main emphasis was to say that the two policies were fiscal and monetary policy rather than that which is in the article which are a decision to concentrate on domestic demand or on export-led growth. However, the answer did try to relate fiscal and monetary policy to domestic demand and export-led growth so there was some relevant material in the answer.

Mark awarded = 3 out of 8

(d)	The policy approaches suggested by economists are expansionary monetary
	policy and contractionary monetary policy. During recession, expansionary
	monetary policy +0 will cause a decrease in interest rates. This will cause and
-	merease in investment, economic activity with increase, unemployment will
1.	decrease which lead to an increase in price where inflation occur.
	decrease in cost of borrowing which allow income of consumers to increase.
	when income increases, aggregate demand will increase leading to an
	increase in price. This will cause inflation. During inflation, contractionary
	monetary policy will increase interest rotes. An increase in interest rotes
	will cause an increase in cust of borrowing which allow income of
	consumers to tall. This will cause aggregate demand to fall reading a
	decrease in price. when prices of goods and services decrease, economic
	activity will fall which leads to unemployment. In expansionary monetary
	policy, unemployment is cured, however it leads to inflation. In
_	contractionary mometary policy, and inflation is cured, nowever it leads to
	unemployment. Therefore, there is a conflict between the two policies,

Examiner comment

This candidate wrote about contractionary and expansionary monetary policy. The answer bore little relation to the information in the article which considered the wisdom of supporting an increase in domestic demand against an increase in export-led growth.

Mark awarded = 1 out of 8

Question 2

The use of cars causes market failure. To achieve an efficient use of resources it would be better if governments intervened to affect both the production and the use of cars.

Explain the meaning of the terms 'market failure' and 'the efficient use of resources' and analyse whether economic theory can be used to support this argument. [25]

Mark scheme

Candidates need to explain the two terms, market failure and the meaning of the efficient use of resources, and then consider the argument. Market failure can be explained by reference to possible excessive profits, the need for very large investments, the existence of externalities and of merit goods, and of the need for public goods. Economic efficiency should be explained in terms of productive and allocative efficiency.

Government intervention can be through regulation, taxation or subsidies.

There are negative and positive externalities from car use. Negative externalities include pollution. Positive externalities include less crowded public transport with greater comfort; benefits from the expenditure of the tax receipts. Unlike other positive externalities where subsidies have been used, it has never been suggested that subsidies ought to be used to increase the positive externalities from private car use. Any subsidies given are used to make alternative public transport more attractive. However, taxes have been used to decrease negative externalities. Taxing the use of cars is usually presented in the context of negative externalities to achieve allocative efficiency. Taxing production might not result in productive efficiency. [25]

- L4 For a thorough explanation of both efficiency and market failure and a competent discussion of the role of the government in promoting efficiency overcoming market failure. A reasoned conclusion should be presented [18–25]
- L3 For a competent explanation with either a more limited comment on both efficiency and market failure (perhaps concentrating on productive efficiency) or a full explanation of one but little comment on the other. The role of the government will be discussed in a more limited way but a conclusion should still be presented. [14–17] (L3 maximum if there is no mention of production and use of cars)
- L2 For an undeveloped explanation of efficiency/market failure with very little discussion of the role of the government. Mention of the government will be descriptive rather than in the form of a discussion related to efficiency/market failure. It is likely there will be no conclusion.

[10-13]

L1 For an answer which shows some knowledge but does not indicate that the question has been fully grasped, or where the answer contains irrelevancies and errors of theory. [1–9]

2	Car3	are	modern	means	of tr	ansport	and it is .
	inpritable	+hat	everyone	relies	on it	to tra	vel from one
	5 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /						usage of any
	may not	be	beneficial	to th	e who	le econor	ny as it
	lauses	pollution	n and de	pletion c	f natur	al reso	urces. There u
							of resources.

failure vefers to allocation of inefficient Market exists negative under Re Sources where external thore abods provision merit Provisio non imperfect Negative markets an EVRN traffic Under and pollution iam WOVIS dif mai Informatio good due 95 30 exist rider Providad becau 20 ave Droblem where artin C n 311 notton medins oublin romebody 1 ŧον UCO the Impertect market markets economy are allocative do produce at not and productiv

allocotion Efficient+ of include allocative resources efficiency productive *efficience* efficiency Allocative equals marcinal OCCUY when Drice Cas WOK of there production docols Services and deman of and SUPPLY The l'on-mu Prod LIENC Occurs when equals to Minimum cos Price average takes place 1+5 lowest 1200 Dra a^{\dagger} 210 words refers To alloca tion resources went possibility C 2 11 Curve Producina a Production ture three to Problems tor whom and economic Produce have been produce and what to solve Produce how to

" confritul clord 5 02 PPC . A consumption goods 0 there At is an under-utility resources and A is inefficient At production point there efficient is at allocation and there is not resources point C chough resources to produce Production is at that Point unattoinable Productive efficiency is where P=minimum AS Altora Price/p min A cost 0 1f production productive efficiency then 0+ 15 х ìs not and output has to be increased and price achieved lowere so that cost as of production is at minimum AC 74 then price has to be lowered and putput 0+ Y decrease Allocative efficiency is where P= MC (marginal cost) Price /1 DM 6 MR = P=AR PEMO 105 The P POINT where to allocative ly efficient equals mc Points and and ь allo cutively efficient a dre Not whereps and Price and output output at ь too ic high Price

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at a is too low

However, according to principle of Pareto optimulity, Pareto efficiency states that when someone is better off, another will be worse off. For example, when John's is able to enjoy more goods All will be worse off than before. Therefore, government intervention may be necessary to achieve y allocation of resources. efficient

government intervention in production and WALLOF etc . use of cars include regulation. The or taxes government intervenes so that pollution coused by usage # Methods is reduced Intervention COIT S tax For example include imposing road Malaysian apprenment have have of road increased the amount taxes and price frequent use of discourage and cars to tolls the trains and other public transports the use of encourage 50 Air pollution can be reduced. noise pollytion that and air of negotive externality is a form

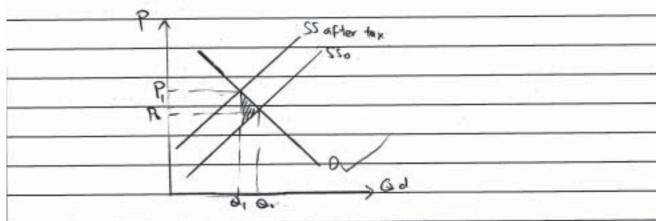


diagram above, when road taxes exist, the In the SUDAY as cost of using cars have increased. car will decrease quantity of cars on the road will decrease Therefore the and cost of using ears increase trom Q. to trom Q +. However government intervention can Haver dead weight loss as shown region. in the chaded cau sp in potential wplfane of consumer Deadweight 1055 loss are

The oppreminent should also intervene so that there is exploitation of natural resources in production of cars. NO ensure that means that would the current and generations are able to Hature consume enough YESOURCES we sets regulations in production of the government cars firms which that obtain approval and licences such wlas government are able to produce ars. For example, trom the the government of malaysia only issue licences to for production of cars. However Perodua and Proton (mill cause imperfect market structure where this only two large firms are involved production nA . of cars Oligopoly market will exist and dropoly market will ronsumer welfare may be compromised due to exist and high prices and low output of a ducpoly firm. The workings of the invisible hand'-price mechanism will also be affected.

Besides the government intervenes so that quality cars produced high and ore consumers are not exploited because consumers usually lock complete. Information This 15 when buying cars . So, the government monitors the production cars by carrying spot checks in car factories. The appernment also made it compulsory for car manufacturers to do multiple test runs before launching the product so that money spent on buying cors are worth it. For example - Toyota Malaycian government Gooppand the sends officers to do spot checks & in car many betaries so that there there Production of cars dre Smooth and ab no Used in production. However being engines -inter may be loopholes and transparency prodem enforcement efficers do not carry out the Some Properly

conclusion, government intervention 15 necessary As a failure. trap it does roduce market However not mean will allocation of resources that there Perfect and be a

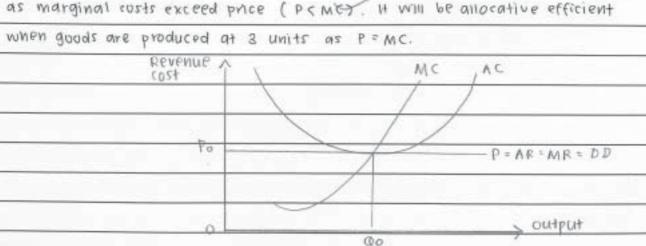
and an	econo	my fr	ee of m	narket fail	ure. The	analysis , government	Examiner use only
above is	ot	ceteris.	paribus	and in	reality	, government	60
Interventio	is no	a hu	th more	com plex	process.		-
- 54				S			
							1
			1			Ly	20

This candidate gave a good answer which referred to both the analytical theory of market failure and to the application required in the question relating to cars. A reasoned conclusion was presented. The answer fell within the band 18–20 in the general comments at the start of the mark scheme.

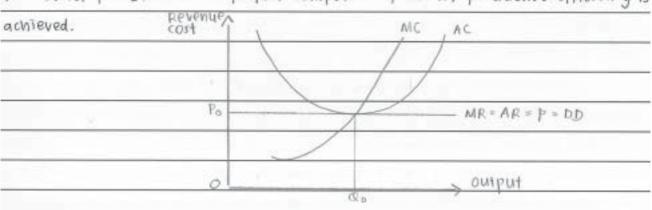
Mark awarded = 20 out of 25

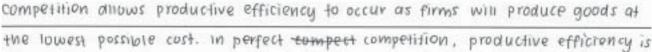
	goods, under-provision of merit goods and over-provision of demerit goods.						
+	Externativies are east the cust as or benefit incurred by a third party of						
+	a production or consumption of a good or service. There are two types of						
+	externalities namely pusitive externalities and negative externalities.						
+	The use of cars are known as negative externalities. Negative						
+							
+	externalities occur when marginal social costs (MSC) exceeds marginal						
+	private costs (MPC). As the good is produced more than the socially						
+	optimum level, it is said to be overproduced and this cauces a low price						
1	the good. The use of cars are said to be negative externalities as an cars						
	en emits carbon monoxide into the air , which causes air pollution.						
	the third party will incur the external cost. Marginal Social costs can						
	be found by adding manginal private cost with ma external costs.						
	p Mzc						
T	MPC						
T	Ps X						
t	Pp						
t							
+	MSB = MPB						
t	Q Q Q P						
	Economic efficiency can be achieved when there is productive						
	efficiency and allocative effects efficiency. Productive efficiency occurs whe						
	goods and services are produced at the least possible cost.						
t	AC 1 AC 2						
†							
t							
+							
+	×						
+							
-							
+	Productive efficiency can be achieved by producing goods and services on the						
1	lowest possible cost which is ACI. secondly, it should produce on the						
+	lowest point of the lowest average cost curve. This is known as technic						

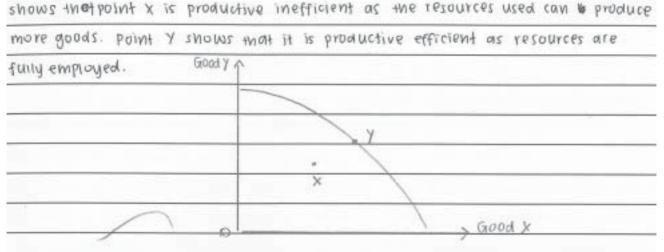




		-	_	-	_	0	co output
	AII	oc ØH	ίve	effi	rien	cy 🕷	e occurs when the right products are produced with
the righ	nt c	imo	unt	of	res	ourc	es. Therefore allocative is achieved when price
is equa	als -	to v	nar	gina	1 CO	s4 ((P=Mc). When goods are produced at 2 units,
units	1	2	3	4	5	6	it is allocative inefficient, as & price exceeds
Р	4	4	4	4	4	4	marginal costs (P>MC), when goods are '
Mc	2	3	4	5	6	7	produced at 5 units, it is allocative inefficient







goods and services right on the production possibility curve. The diagram below

ntervention is needed. Covernment should impose tax of ab as so shown	iN
the diagram below to a correct market failure.	
P T MSC	
MPC	
	-
M3B = MPB	-
0 05 0p > 0	-
	-
An imposition of tax will decrease the production of cars which would	
in turn decrease the amount of carbon monoxide emitted.	
Government can enforce regulations such as peak hour charges. A	n
amount of money to be paid for those who drive on the road during	
peak hours	
Government will also produce public goods and merit goods as	
public goods are not provided by the private sector and merit goods are	few
provided by the private sector.	
An imposition of income tax will by the government will reduce	9
disposable income of consumers. This will decrease the consumption of	-
consumers. Government can also increase the interest rates of commen	cial
banks. This will increase cost of borrowing which lead to an a reducti	
of consumers taking car loans. Imposing duty imports can also reduce	
consumption of cars. Car duties will increase prices of imported cars. Th	112
will lead to a fall in consumption of cars, which reduces pollution.	

This candidate had a reasoned account of market failure in terms of public goods, merit goods and externalities. There was also an explanation of productive and allocative efficiency. The weakness of this answer was that there was little on the role of government intervention and even less on the application to cars. Both government intervention and an application to cars were required by the question.

Mark awarded = 15 out of 25

Question 3

- (a) Discuss whether demand schedules and budget line diagrams are similar in the way they represent the effect of
 - (i) a rise in the price of a good
 - (ii) a rise in a consumer's income.
- (b) Analyse what is meant by the equi-marginal principle of consumer demand and whether it can be linked to the derivation of a market demand curve. [13]

Mark scheme

(a) A rise in the price of a good: a demand schedule has price and quantity of one good bought against price; budget line diagrams have quantities of two goods – price is not on the axis; one cannot tell how demand will change with budget line unless you also show preference lines.

A rise in a consumer's income: similarity, both move parallel out for a rise in income; but cannot tell what will be bought unless have supply line – with demand – or preference lines with budget line. [12]

- L4
 For a sound discussion indicating the similarities/differences
 [9–12]

 L3
 For an accurate explanation but with a less clear comparison
 [7–8]

 L2
 For a general undeveloped explanation with little comparison.
 [5–6]
- L1 For an answer which has some basic correct facts but includes irrelevancies and errors of theory [1-4]
- (b) Analysis of equi-marginal principle which underlies an individual demand curve. The sum of individual demand curves form the market demand curve. Whether individual utilities can be added is debatable. [13]

L4 For a reasoned discussion linked to more than one good and clearly structured answer with a conclusion [9–13] If our L4 maximum if there is no mention of market demand.

[Low L4 maximum if there is no mention of market demand]

L3 For a fair discussion but undeveloped answer but still with a conclusion [7–8]

L2 For a limited attempt which does not clearly determine the equilibrium position for more than one good and no conclusion. [5–6]

L1 For an answer which has some basic correct facts but includes irrelevancies. Errors of theory or omissions of analysis will be substantial. [1-4]

[12]

3a bit Demand & schedule is the graphical representation of changes in quantities that consumers would demand or would want to punchase and at dissevent prices at a certain period of time. It is valed used for only good represent the demand for only one good disservent Budget line is the graphical representation of withe possible combinations of go two goods that consumer with carry putchase with their Sized in come. It As consumer wants are restricted to be sullfilled by the income they earn and the price of product, it is important to produce a budget line as in to show how two goods, will be in what combination, will be punchased. (i) (i): A rise in price of product in case of demand Schedule lead to change in quantity along the curve As the price rises consumers would demand the good less as than before As in Sigure on the right, shows Price the demand schedule for for φ, a good, with quantity demanded in the n-arcis and price in 6 the y-anis. It is shown that -QJ a hise in Price from P to P, will lead to a Sall g. to Q1. \$ This will be also the same case for Budget line as the quantity demand for the god good will sall

shows the demand of one good in compare to the other (nood y it would be represente in the same way. The sigure shows, good XX is x-anis By and a good Yz in the y-anis. Before the rise in prise for good up the guantity demand was is on aster the rise it pivoled at \$ by and sell to gry, However is there could also be a nise in quantity demanded For good & as a rise in good x would lead to consume demanding less of good X and possibly substitute it with good Y. For both the demand schedule and Budget line the Sall in quantity demand of the gold that hise in price is because consumer would substitute the good which appear costly, to the good which appear cheap in compare this is resound to substitutions essect (ii) A rise in eincome for would lead to a change shift in demand curve sor both the goods diagram For demand schedule and budget line, and increase in income would allow consumer to spend more, so they would purchase & more of the good The figure shows a demand curve, with Od in n-anis and Price in y-amis. the there, Q the rise in income shifted the anve to jest. It means for the some (rice, P, more quantity is ò. +92 On' demanded, i.e. Q, to Q2. QL

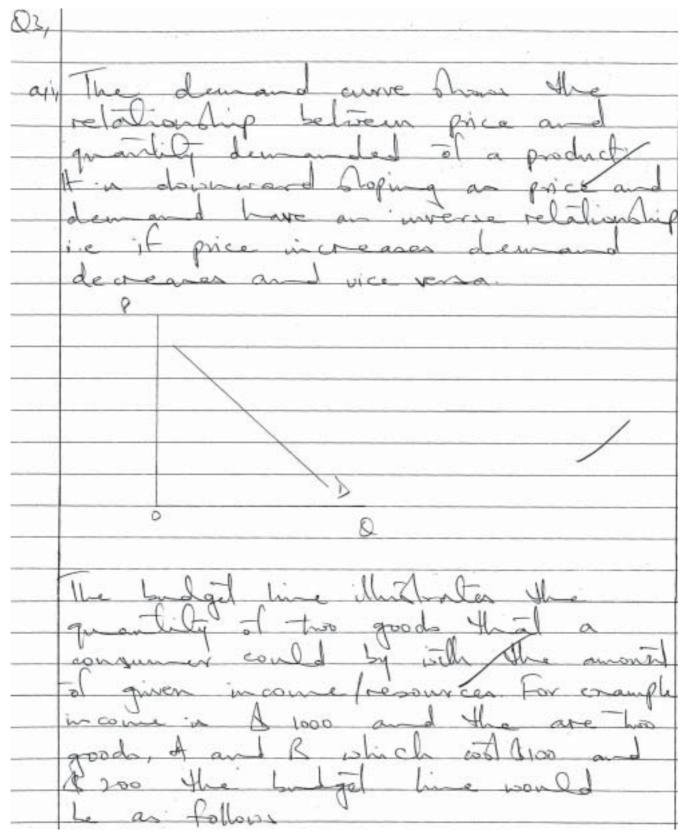
as the price rise. However bince it is the Budget line

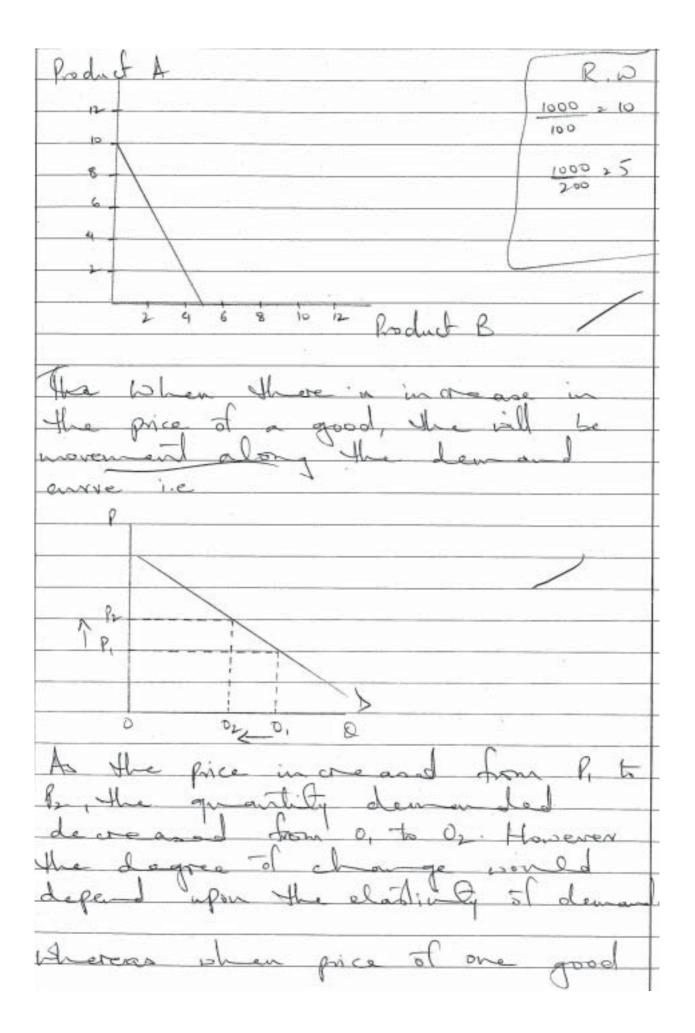
Similarly in the case of Budget line the curve 941 841 shifts to left meaning that bot con both the Good can be purchased more that before without sacrisicing the other as there is an increase in Income In the dia figure is budget Bx An Groc line it is shown by an increase in Qd of the good ie. Qy to Qy1 an On to BX, it rose. This referes to the income effect for both the diagram, as an increase in income leads to Increased disposable in come for the consumere. a 3 b Consumers derives a happiness or satisfactory when they consume a pay god good, it is hereneed to the Utility of a goo consumers a good Marginal Utility is the satisfaction derived from the consumption of extra one whit of the good However, this thit Marginal Utility tends to salt as consumer consumption increases. Mis known as diminishing marginal utility. As cons -umers me earn Sixed income, they would want to utilitie the income in a way that will maximise the Utility derived from all the goods consumed with that incongrincone. They It is the equimarginal principle of ear -upper demand, as they and is represented as, MUA - MUB - MUK NUN PN While the Marginal Utility, P is the Price and A.B. C --- N is are the disterent goods punches

the fined incare. It This shows that the Utility derived fromme an Unit of good entra compare to its erice is equa al goods that punchases with 4 He e consumer This principle can be used to derive the demand As if the Rrice 0.00d 03 a good A valu MUA PA as to aincrease . 50 Sert Seen in demand e. mark sice lead 8 0.5 1h 1ato ot guantit However, consumer consu red A and subs and sumption of the other 200d UCManginal white Utility) Untill Qqui principal is, of consumer demand can be used Principal denive 7 by analysing emans curve, Quantity demand

In section a) this candidate gave a clear explanation of both a demand line and a budget line. Changes in price were demonstrated correctly on both types of curve with a clear comparison. Income changes were correctly shown as indicating a similar movement on both types of curve. In section b) the candidate explained the meaning of the equi-marginal principle and discussed its link to a consumer's demand. The answer could have been improved if the last part of the question which asked about a market demand curve had been more clearly discussed. Mention was made of a market demand curve but the explanation surrounding this was really related to an individual consumer's demand curve.

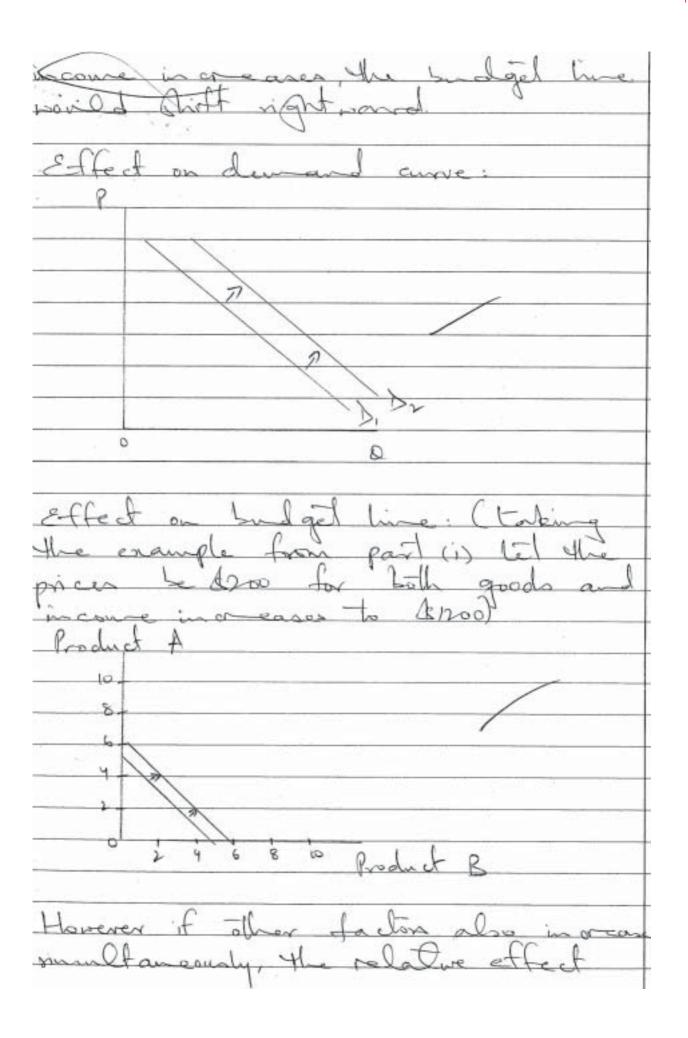
Mark awarded = 22 out of 25



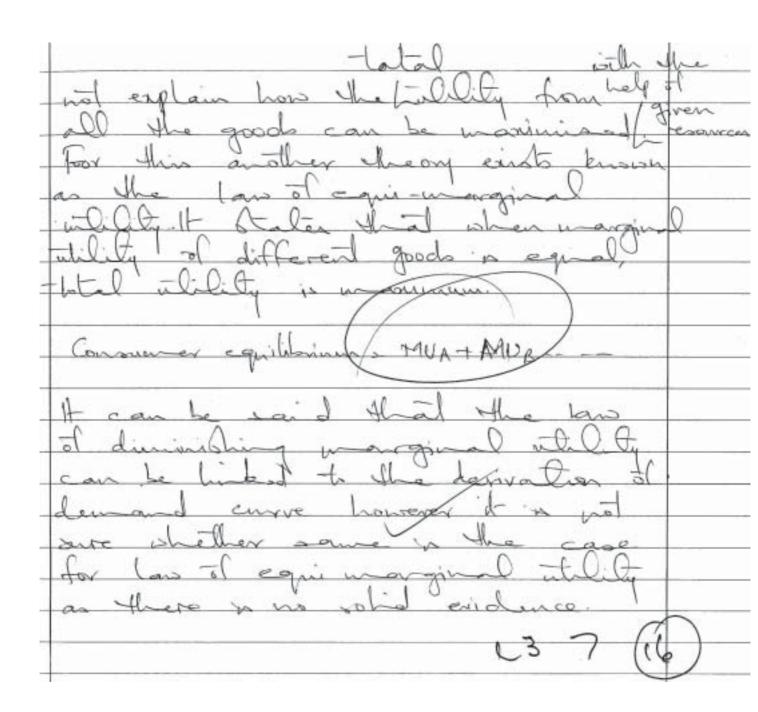


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Paper 4



201 explici 3 tU 0 0 MI DY SIL



This candidate gave a clear explanation of the meaning of a demand curve and a budget line in section a). For a price change the shift along a demand line and a pivot about a point on one axis for the budget line were indicated. Income changes were shown as a parallel shift in both the demand and budget lines. This section of the answer could have been improved if there had been more of an explicit comparison between the demand curve changes and the budget line changes. The reader was left to conclude which were similar and which were different. Section b) was a weaker section and although marginal utility was discussed the answer did not really explain the principle of equi-marginal utility and its link to a demand curve.

Mark awarded = 16 out of 25

(a). white 08 MAR. demand A n36 the DA. 9000 Schednes diagray line demand EA 20M/mm H demand 13 MOVE OOW Whit Ĉ mil d 13 0 and axis roun emand Dnil 0ª 1900 harna 0 dwp -Because CONSU ano SIM 210 ilena lxan when Mann 10 Voguy (Cl While 12 Willow surphis a Consumer 130 IN ar 5 incom and CM iV ema 5 OWN Man in Sman 4 TL n ON l

6) demand CWN11. UM1 The and iman and agang which demand agregate RS demand S MIN CA emano WU ٤ 1 d 900 unund mems manna prin 00 ansuma Cil demand Od 10 isniner deri Con Cur Magne 00 Inv dow ON MOW dow Nom

This candidate gave a descriptive answer which did not contain any diagrams. In section a) the description of the change in the demand line with respect to a price change was reasonable but there was no real explanation of the change in a budget line due to a price change of a good. The changes caused by an increase in income were not explained. In section b) although there was a reference to the fact that the market demand was an aggregate, there was no explanation of the equi-marginal utility principle of consumer demand.

Mark awarded = 7 out of 25

Question 4

- (a) Discuss whether it is always advantageous for a firm to grow in size. [12]
- (b) Explain the economic theory of profit maximisation for a firm and consider whether firms are likely to follow this theory in fixing their price and output. [13]

Mark scheme

- (a) Discussion of possible reasons for growth including large market demand, economies of scale, possible future profits, with a contrasting comment on reasons why it might not be advantageous to grow in size; diseconomies of scale, small market demand, specialised products/services. Allow a wider interpretation which discusses effects on consumers and in the economy. [12]
 - L4 For a sound discussion with contrasting explanations. [9–12]
 - L3 For an accurate explanation but with an emphasis on one side possibly of economies of scale only. [7–8]
 - L2) For a general undeveloped explanation. [5–6]
 - L1 For an answer which has some basic correct facts but includes irrelevancies and errors of theory [1–4]
- (b) Explanation of the theory of profit maximisation. Candidates should then consider not only whether it is possible to calculate marginal revenue and marginal cost to achieve profit maximisation but also whether the firm might have alternative aims. Sales maximisation, behavioural, managerial, satisficing, market share aims might be mentioned. [13]
 - L4 For a reasoned discussion and clearly structured answer with a conclusion [9–13]
 - L3 For a fair discussion but undeveloped answer mentioning either only one part of the question or both parts but only limited mention of alternative aims, but still with a conclusion [7–8]
 - L2 For a limited but acceptable attempt to consider the question with very limited development of either part and no conclusion. [5–6]
 - L1 For an answer which has some basic correct facts but includes irrelevancies. Errors of theory or omissions of analysis will be substantial. [1–4]

Paper 4

Large-scale production is often said to be advantageous for due to the benefits a hom a This is not, always the case as productive capacity. however. that one Branding with regative effects Due Homes oning about growth a a fim reasons to suggest the the most Emmonly cited n where average cost Situation productio sole luis refers unin Conomics decreases while the autout level increases. In this chown production for detreases. level Q . As output notes nin average cost to actoret ne US: URAC . -Adort Q 2 Fig.] This on be due to technical economies of scale, where capital and labour are used to managenial economies levels. - scale which encourages anductivity achieve their maximum functions and so on. Firms functioning with large - scale and operation job roles sh trioy lower average adiantage production asts. whiel to din loging Le lowered without the as prices on competition manning to engago, .h increase goending mas would This lower, consumers, as BWES benefit 13 æ sale would with the benefit then . lime prices do economics of not this profits and would be more likely effe to profits. pa/n atmorm and more enables firms to invest in research and product innovation a bener as non-price competition that also benefits ansumers advartage 17

Paper 4

teonomies of scale an generally be seen as an improvement in time of ms are minimized and the use of resources is maximized. In these scale may be advantageous and firms' growth would be positive for the market However, this is not always the case as adopt levels above Q, in force I show diseconomies of scale as firms find it increasingly difficult to manage production beyon contain level. This decreases officing and results in wastage of resources firms may become monopolies if growth is allowed to continue without sufficient Monopoly situations can result in consume exploitation as the lack of addititutes competition. can ourse fine to have total market central and raise prices excessively. Monopolies are to be inefficient as the lack of competition aluces the incentive to minimize also thely in order to maximize profile. arts Monopoly eliterations can result in a lack of choices for ansumers and this would be seen as undesirable, especially consumers lose soverekanty altogether in the market. Ecceptions may occur in the case of natural monopolies, where high out costs and from's growth er infrastructure technology atesmay encourage ter more it may be better for the the market. This is because allocation genne infrastructure and aprilal are not duplicated many Small cane product. 2. In conclusion, there are advantages to a firm's expansion of productive coprarity, but there may also be disadvantages. It is reassard to examine the market and tions is each possible effects chould be evaluated before determining how optuation and the selector advantageous it would a. firm to grow in size

Paper 4

6) fraget maximization refers to a firm's objective to maximize profits is the production of a highest posobe 9000 Rivice obtaining 50 the profit lug illustrated as the MORT Brnman Drivate The many mannum ims. the point are obtained where ar where to the magginal generated sevenue the extra produce are on 1085 with URA91 Ma aext wit production a time are said to ain profit maximisation in order to the quin more retains entregreneur Sharehoblers. Юho in some firms would be more 'n the hopes profits that an then somina alnomal or used nemusele POPES. dudlogment Ulis tim's ability to and innovation would annele non price manner improve the quality a alphant and on improve areductint aportal technological through advances and training abar all form However not may engage profit maximisation all of the time, depending À on the tim and the the market and indicates. circumstances 07 populion AA. firms that a market they may choose met have Intered -60 norimice Sales instea order to position and Annly establish their more cantrol of ling - market chare. resits in firma setting Manan below the maximum attainable mour o protet increasing their dientale or contines base, DOR By through salan Lowesproces worth noting that firms will rangely to the point of being unable unia τo Bustain costs in indicating that in MA orofit makini sation the long nin after may all be commonly objective the most housed new the er. m In a, entrant market the firm a industry to lese liply A with 05ander Meximigation a to diversity 10 him that alle 0088 Subsidite and This fim s ability to Puttain logges 6 a 9000 or service give to prestablished 165 position and her profit margins another Service that to activit Makim ITt

46) the level of output regending and agion8 gating. albert less lleir refest decisions mode 9.00 incentive to where Mare A no MOSt 4n margarni (usually level the minimum revenue 05 profile redetermined Sharehelde rate the workers A Muduad as ADT the đ, matrate deviating mar are MC=MR e 2, MC=MK is thown as the pro fit-making level a act quantity h Ø the level of to onin siles - maximistra an less than rand Q. MC= les ta k lower Die 16 ME P MR 2 April Q Fil- 2 Letween Anne Markets depending lectors an conditions market roles osition. ag Æ lasge said Post Haddan da a đi, brent 40/1 pallin cabi apartina

This candidate gave a good response to section a) which contained an explanation of the advantages of growth through economies of scale, the disadvantages caused by diseconomies and the undesirability of some monopolies. Profit maximisation was discussed in section b) but there was also a discussion of alternative aims of a firm including non-price competition, maximisation of sales, increasing market share, cross-subsidisation, satisficing, all of which might need to be balanced against the desire to gain maximum returns for shareholders.

Mark awarded = 19 out of 25

4) a) Firms in an exanany can expand through external integration and integration.
By internal integration, firms can expand into bey increasing the minumber of branches in an
economy while external integration can be divided into leword integration or lookword
integration. Forward integration is accura when a firms expand into a different vertex of
industry which has takes place after its eniting seter while hadkword integration acrus
when a firm expand into a sector shifting before its initial sector in the industry.
For example, Withow-Wilkswagen and BMW merged into a single company recently.
By expanding a firm a firm will be able to above advantages as well as
disadvantages. They must significant advantages of large company is economies of
scale. Bionamiles of acale accurs in the long ran where firms will be able to produce
autputs at minimum cost. In other wads, firms will be productive efficient.
(P) Based on the diagram, as a firm expands in size, the
him wil be able to produce (2, quantities at P.
LRAC which is the lowest paint of the long run average
P curve graph. When a firm experience economies of
to scale various sectors such as financial will be answer
a, have lower out to the company. For example, large
Rims such as Tasco Supermonthet will be able to obtain leans or Rhancial aid
easter as investors or will have high confidence towards the company as the role bearing
of the investors to all be laver. Komposed to investing in small vetail as shop supermarkets.
Advantising Specialization can also take place when firms expensive economies of scale, hence
decreases costs such as the and thus, increase productivity of the films.
Besides that the first attain to producing at as a Rim experiproduces autou
orf its minimum cost, the profit margin of the Rim ull increase. as its revenues will
the higher. The increase in profits ourned by the firm can be used for research
and obsellipments as well as investments to finderease the autor productivity as well
as the quality of the goods and services produced. By doing so, consumers
will also be able to have a vider range of goods and sometimes sortices to chose

Furthermore, as the Furthermore, the employment hizon Furtherinary as the atput or productivity-Furthermore, the employment level with also increase ASS P1 due to the increase in pett corned by the firm. 8. Kence, the national income as well as the gross AQ. danastic pooluct of an economy uil increase from SCORINY QL Q. Q1, to 62 as the supply increases from AS, to AS2. fines expands in size, continuer legally can also be gained. In other words, the law price of goods and sources of the Rims the flows can also apin manhet share in With the lower price changed on goods and services produced in an economy, an elenamy. conduments will be able to enjoy goods and sonker at lover prices, hence improving the standard of living of the cash country. As the firm obtain maded share in the indiatry, advertising will be needed as anyoners layorly one already obtained. For instance, Tessa Supermarket BMW will not need to advertise much as anyment it has already gained trust and marked share due to its quality and performance Havaver, as firms expand, more pace will be readed, for hence increasing its manufacturing as buildings or premises. By dring so, no lar Large campands ull be needed and as the increase cutput increaser, more rejources will be used, causing increasing the possibility of explotation of resources. The non-renewable resources such as petiteum this cannot be revolvable, have might decrease the availability of these resources for future generations. In other words, scheinable granth cannot be achieved Maneaver, as a firm grand in size, there can be discontaning of scale such as problems of acordination or communication. This causes fine lag, country affecting the ise efficiency of the firm. There might also be alientian of staffs as a firm your, causing demotilization of workers, anothing a developer in productivity. As I flight expand in size, there the flim might act as a monopoly marked where quartify of goods produced one reduced and the price charged on goods and services inonasses. This is because due to involtment in meanch and atallyment, the goods produced by the large films might be of better eccenter comprised quality the small retail ships, causing an irelastic demand of goods. With this, the price of can be changed higher to obtain higher revenue and profiles. Along with this small components which do not enjoy economies of scale night what down due to point pice arts to compete with the lage fins. extreme

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Paper 4

To anclusion, another these are diadkentages and advantages that an occur	Exat URL
as a firm expands. However, its it is able to anticl the oblinger of all claimage of	
duaduantages by government intervention such as maximum prices as well	-
as sublidues to infant institutions. Quedas on access to resources an also be implied	1
to molinfain authinable growth in the expanse economy.	
5	_
1	
3	8

4)6)	" . Rolt maximuation for a firm can be achieved when the manginal cose jugued to
- /	the marginal revenue came. This is because since marginal cost is the afference in
	additional cast of producing an additional unit (A Total cast), it can be said that it (A Guartice)
-	is the supply arrive of a firm. Marginal votifier and is upon raverue or me is early to
-	
-	be the additional revenue generated by an increase of a wint of soles of the firm
	(A Total polly). Have, it also be taken to be the demand annue of the firm. Maginal (A Quality)
	revenue come is downwierds sloping as the immuse in pice all generate laws downed by conne
4	due to substitution effect othere concerned will write to rebuildely changes rebuilding
	thence, firms will goodlance according to profile maximisation to obtain its Helt maximum
	possible revenue. However, it differ for the type of monked structure in on accounty.
	In perfect competition modult, the times are price takes, have the monghal navance cull
	be perfectly elastic as the price ore equal at ranious artifacts. Therefore, the average
	1 nor vevenue, manginal revenue curves are the same as price
	R P. P. mar-AR Based on the graph, MC auts MR at point @
	where hims produce at Q, at Q and set a price at
1	0
	$0 \sim 0$, 20 , 30 .
	In manapply and manapolivitic manifests, firms will an charge higher price at laver
_	grantly because of the industic openand of ansumer . The to product differentiation in
	P . Malapolitic malleds, the marginal revenue and average
	A mc verince graph & damwords Jophy while in managety
	Pit-the helpspic depend due to reproduction causes the
	o les month property in the second
	Inf. AR intriginal for awaye revenue graph to be danivorde
	0 0, 20, Marg. 7. 110 ccute, madepartie with another that the way price settler.
	Based on the graph, the mc curve cuto the MR curve at point e where the goantay
	produced is an est and price charged at & However, due to industric demand and being
	price setters, the times charge a higher price at P, interad of B to obtain higher nervoure,
	converting consumer surplus of one ABE into revenue.
-	manufactured consider stilling of case in a reference .

It is different in antennue contestable markets as they have free entry and entit Soce R and entry one minimal or zero, contestable into an industry. 9.00 entry are obe and producing more good. laver prices the profit - maximizing a non-confestable market. artest to Q, where price chorged is at on radis A mc ort Rem However in a contestable monket a is obe atats d aug increase. AR choose Bosed FROND and. Q. Q1 markets ortestable charge lave autart miles non-correstable The COMBINIO 40 known to be manginal cost pricing times that Kendes also thorase low prices on speech time micin Jewicz inclustry . Tho as predictan COMPONICA 17 knav able to fim are Ana 赤白 from other ìŦ NAMESON ubittution atteact ------No Haware denned the hoosen ò elasti Anth entel will to NEG be othe monorthe haluter the dept In andusion twent and feilow ante Maximization as the ituation and infention of the films

Examiner comment

P

This candidate gave a reasonable answer which could have been improved in section a) if there had been further development of economies of scale and/or of the reasons why it might be advantageous for small firms to exist in their own right, rather than concentrating on the lack of managerial control as a firm seeks to grown. An improvement could have been achieved in section b) if there had been further discussion on the alternative policies that a firm might use. Mention was made of contestable markets and predatory pricing but the answer could have been developed with a mention of sales maximisation, behavioural aims or satisficing.

Mark awarded = 15 out of 25

a). It may be advantageous, if a firm is competing in a perfectly competitive market where firm active abnormal profit, as a result of puolity maximisation It may be advantegoous, if a firm is competing in perfectly competitive market where profit maximisation, MC=MR occurs Since in Perfectly competitive market, P=MC, Herefore MCMR Q2 PEMR. price is equal to marginal revenue, means firms achieve shirt run abnormal pustits. This abnormal pustito can be direct to R & D which may innovate the production process resulting the firm to economies of scale, where which is reducing overage rost as size of firm grows P. MC Δ Profit mandarisation MC=MR. D=AR=MR D It may be disadvantegeous, as firm achieve abnormal profit, competitors may enter the market, resulting the price to be fall, therefore firm donnat achieve abnormal profit in the long hun, but hormal protect. may not Then be able to inject sufficient amount of fund to R&D, and may not PXPerC possibley possibly diseconomies of rale economies of scale, but , 0 in size but they may not find innante e method to reduce average

Paper 4

Leave D. Profit maximisation is a point where MC - MR to shown in the diagram blank MC P D:AR:MR 0. ochieve abnormal prefits, rein they tires In the market Hais Ehille In the short run, they achieve abnormal profits, which attract firms to enter the monther, this shifts industry exclupply any outwards resulting in price to fall the this continues until firms carning normal profits in the long num. If only normal profits are earned, then firms exit the market, so industry supply curve shifts but inward, again in the long non, firms achieving normal profits only. Therefore is a result firms maximising profit earns normal profits in the long run P alels ... Industry curve showin above a Firm Firms in oligopoly may collude to generate greater profits, fixing price at which abnormal profits are generated and give quatas to leach firm. But this may be break upeasily, if one firm cheat to generate even greater publits by exceeding production quotes and charging higher prives.

This candidate began the answer to part a) by explaining profit maximising in perfect competition and only briefly mentioned diseconomies of scale. Some of this information was repeated for section b). The diagram in section b) lacked the correct labels and although there was a brief mention of oligopoly there was no real explanation of the theory of profit maximisation and no discussion of alternative aims which a firm might follow.

Mark awarded = 8 out of 25

Question 5

In imperfect competition, labour markets can lead to worker exploitation in terms of the wage rates they receive compared with wage rates in perfect competition. Discuss this opinion. [25]

Mark scheme

Candidates should explain the economic theory of wage determination (marginal revenue product) and compare the situation in perfect and imperfect competition. The theory indicates that wages are lower in an imperfect labour market especially if there is monopsony. The extent of the reduction varies depending on whether the labour market is considered with a perfect or imperfect product market. However, the comparative reduction in wage rates may be corrected, at least in part, by the strength of unions or by government legislation. [25]

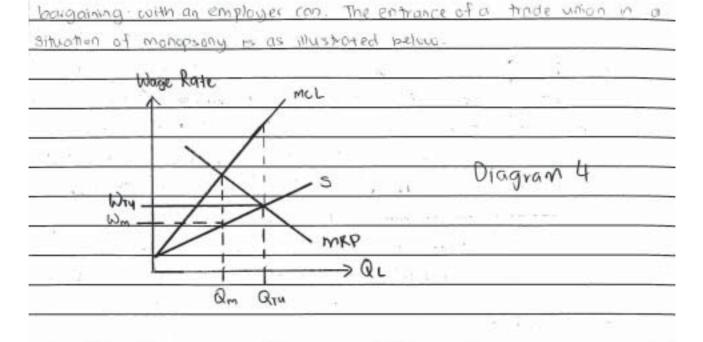
- L4 For a thorough explanation of the analysis of wage determination with a clear comparison of the two markets and a comment on trade unions and/or government policy. [18–25] (14–17 for demand and supply only with institutional factors and/or government policy)
- L3 For a competent explanation of the two markets but with a limited discussion and application. (10–13 for demand and supply) [14–17]
- L2 For a correct but undeveloped explanation with only brief application [10–13] (6–9 for demand and supply)
- L1 For an answer which contains inaccuracies and only a few correct points [1–9] (1–5 for demand and supply only)

Whether labour markets under imperfect competition lead to worker exploitation in terms of wage rates they receive compared to wages in perfect competition is highly subjective and dependent on an analysis of the presence of a monopsonist, trade unions and government intervention in an imperfect market.

tirstly, under perfect competition, the MRP theory best explains how wages are determined in the market. Here, the wages of workers are dependent on their Marginal Revenue Riaduct (MRP). MRP, in essense, is the amount of additional revenue of firm would earn by employing an additional unit of worker. Since firms under perfect competition are profit maximisers, firms will higher workers up to the point where MRP is equivalent to the Marginal cost of lightful (MCL) as illustrated in the graph below. [Graph 2]

Wage Rate	Wage Rate
↑	\uparrow
\backslash	
US,	mci mci
	IMEP
>Qty	Labour - Qty Labour
3	Q,
Graph 1: Market	Graph 2 : Firms

Since under perfect competition buyers (firms) and sellers (workers) are price takers, the wage rate is set by the interaction of demand and supply in the market. The reason that the graph for the individual firm is represented is to distinguish between perfect and imperfect competition. If is assumed that under perfect competition, all workers are homogenous. Hence, the cost of hiring an additional unit of worker to the firm is constant. There is no explortation of workers in terms of wage rate Under perfect competition as a firm who offers a set bage rate lower than the market rate would have no worker working to work for them given the unlimited buyers (other firms) who offer the market wage.



Here, the trade union has successfully negotiated a night wage rate for workers than the manopsonist had initially offered themes, <u>one min</u> The wage rate the manopsonist affered (Wm) when has now increased to WTW. In this instance, the trade union had negotiated the a wage rate equivalent to the market equilibrium. However, a trade which higher bargaining power would be able to demand an even higher wage rate. This would depend on factors like the union density and substitutability of labour. In essence through we might derive from here that it is possible for wage rates to be higher than the market equilibrium (and hence perfect competition) under an encoded of imperfect competition

Intermediately, we can conclude that a monopsony drives wages lower than what they would be linder perfect competition. However with the presence of a trade which, wages could potentially be much higher.

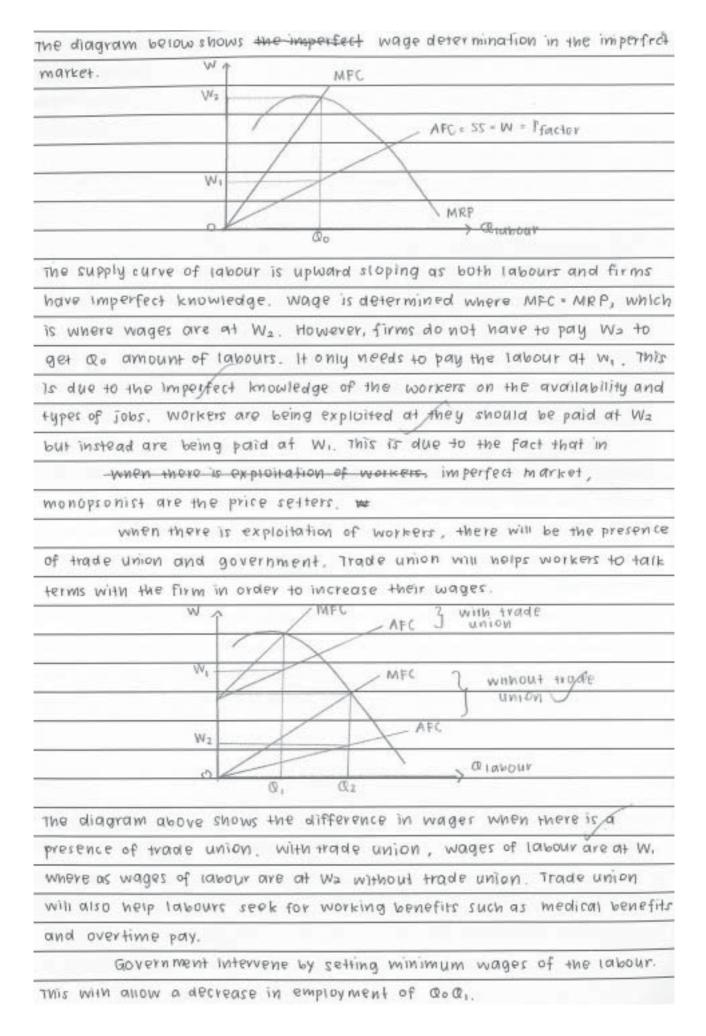
Besides this, there is no government intervention under perfect competition. Imperfect competition, on the und other hand may evoke government legislature such as minimum wage requirements that could drive up wages. This is its is its intervent intervented in the graph short follows

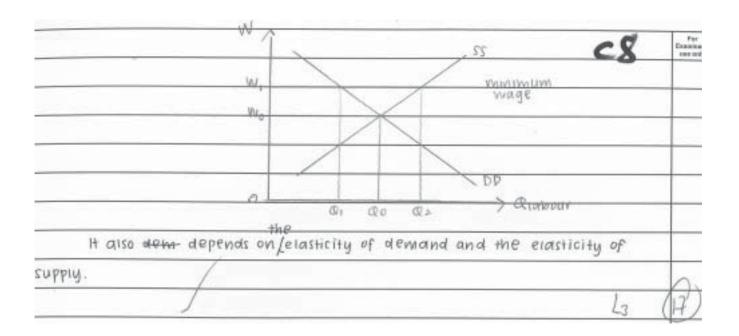
Wage fati	100 24
	-
Waring Craph 5	
$\omega_{\epsilon} + \chi$	
1++>QL	
Qo Qr Qs	
The government could set the minimum wage above what the	
market would have there this would drive the wage higher than	
what it would have been under perfect competition (WMin > WE).	
There are arrenerary	
While intritive wisdom suggest that exploitation may occur under	
implefect compassion that introduction of a minimum ware - + - + -	
Union may set the price higher than what it would have been under	
perfect competition. These efforts, however, are highly controversial	
as in some instances (Graph 5), they could result in an increase	
in unemployment (Qs > Qp).	0
L ₄	21)

This candidate gave a very clear explanation of the determination of wages in perfect competition through the market demand and supply. This analysis was then contrasted with that which applies to imperfect competition. A discussion of the influence and power of a monopsonist, a trade union and a minimum wage determined by a government then followed. A concluding paragraph drew attention to the difference that may occur between perfect and imperfect markets when trade unions and minimum wage regulations exist.

Mark awarded = 21 out of 25

Thus , this will lead to an increase in the domand for construction workers. Marginal revenue product (MRP) is used to indicate the domand for labour. MRP is obtained by multiplying marginal physical product with marginal revenue. (MRP - MPP * MR). MPP is the additional output produced by employing an additional worker. MR is the additional generated by employing an additional worker. MRP is known as the additional revenue of a product produced by employing an additional worker. There are assumptions for MRP. There are perfect and imperfect in goods market and factor market. All veniate Perfect in the goods market indicates that the demand for labour is a horizontal line where DD > P=MR = Imperfect in the goods market indicates that the demand for labour is downward sloping. All variable factors are homogeneus. It is due to the law of diminishing marginal return. Pirms are self to operate in order to achieve maximum prod profit. Wage are determined where MRP = MPC, MFC is the additional cost of employing an additional worker. MRP MRP MRP MRP MRP MRP MRP Perfect knowledge. The labour is horizontal as labour and firms # both have perfect knowledge. The equilibrium is furthere wages are at we and quantity of labour is at Qo. Point A cannot be the equilibrium point as MRP		in the demand for property houses will lead an increase in property development
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not continues to rise. When MRP > MFC, firms will employ more workers	-	





This candidate gave an explanation of the analysis involving marginal revenue product theory but with less development than is required for a very good answer. For example, the candidate did not clearly indicate how the wage which was used by a firm in perfect competition was determined by the demand and supply in the market.

Mark awarded = 17 out of 25

+ In impendent compension, which may manifest melt in the Rim of monopolishe compension, digopoly, monopsony, duopoly, or monopoly, the nonon of fair wages is often debated because CANAI when imperfect markets are though to distort, have determination and exploit workers. The companicon may be held between a perfectly compenitive market somewore and a menopoly monoprony, as well as a monopoly, monopsony (labour) rage rates perfect compension rafes 64 14 P= MRP, D=MRP. 929 e3+ e1 Englisheganistic CONFERENCE OFFICE OUT OUTPUE A monopsony is resenvally, a monopoly byper of labour. It is one buyer for many reliers which is why the supply in a monopsony for labour book is significantly more inclashe than that of the supply in a perfectly compensive labour markets This means that, while equilibrium wage is at hi, a monopsory, being profit maximising, may hive workers at issue ha whout an incredible demease in output whereas in perfect compension, where demand is equal to me the marginal revenue product of a worker, # a wage decrease would reput in a great lace of output, which will stop firms hom

Paper 4

reducing wages. The This & insures that wages in a perfectly they compenitive market do not exploit the workers, 96 determined by the demand and supply for labour. are must also be careful with retting It's wage Monoprony, however, wage rates go belien the transfer parnings ILS power; as amount of of wage for too many workers, the level Imperfect the firm will sharply decline. In available O.C. and discommahon presences of compension, there is also the imperfect knowledge, or assymetric information between the of workers NOREES which leads to the explositation employer and MRP requires given the opportunities their NOT because they are him discrimination against were Amale employees, GOV EXOMPTE In the cance employees may pay them lower wages than men perfectly competitive monker occupation. This is not possible a in where there is no discrimination and perfect knowledge, mobility / geographical mobility well as occupational and graphing Inmobility contributes to the wage retting POWER OF CHOICE there monopsonies as laborners often no have transferrable ane not lower mage rates as SEALS Theme NOR at with move to a location able to not ane or they characteristics of There are all builder was impensed market opportunution. NOMERS compension distort wage rater and exploit WORKERS KRONER which below the real Nage IF their wages are may also be exploited rate so that they operate under a money husion is not pould The labour monopoly, and a Monoprony CL. commissions on c Product nevenue 120 Marginal wage rate market smichnes lacks the the imperfect compention in such Nages 50 Fair equily of perfect compeninon which ensures inevitably. concet, if somewhat largely the opinion 15 rething porer Firms in oligopolices, duopolies, and monopolies, with wage do not need to retain faimers amongst their worker

This candidate gave a descriptive answer. The diagrams were not clearly labelled and there was confusion between perfect and imperfect competition. There was only passing reference to marginal revenue productivity, the analysis of which was omitted, no reference to trade unions nor to government intervention in the form of minimum wage legislation or regulation.

Mark awarded = 10 out of 25

Question 6

(a) An increase in investment will raise national income but an increase in the desire by consumers to save will reduce national income.

Explain why this is the case.

(b) To increase national income, interest rates should be lowered; indeed lowering interest rates is the only policy available to increase national income.

Discuss whether you support this opinion. [13]

[12]

Mark scheme

- (a) Candidates should explain the different effects of an injection of investment and a withdrawal through saving by use of the multiplier process. Possible use of 'paradox' of thrift idea. [12]
 - L4 For a sound explanation with good application and a clear understanding of the principles involved. [9–12]
 - L3 For an accurate explanation of the multiplier but with a more limited contrast of the difference between the investment and saving. [7–8]
 - L2 For a general explanation probably in descriptive form. [5–6] [Maximum L2 if there is no mention of the multiplier]
 - L1 For an answer which has some basic correct facts but includes irrelevancies and errors of theory [1–4]
- (b) Candidates should analyse how lowering interest rates might help increase national income through increased investment or increased spending and then discuss whether lowering interest rates is the only policy available. [13]
 - L4 For a sound discussion with good explanation of the analysis of interest rate changes and a consideration of alternative fiscal measures with a conclusion [9–13]
 - L3 For a competent comment but with limited development of the analysis or undeveloped alternative policies and a weaker conclusion. [7–8]
 - L For a brief explanation and with a weak discussion of interest rates or weak alternative policy measures with no conclusion. [5–6]
 - L1 For an answer which has some basic correct facts but includes irrelevancies. Errors of theory or omissions of analysis will be substantial [1-4]

			ponents in measuring the national
			of the aggregate expenditure of
an economy	and contribute to the gross	domestic produce	t CGDP). The circular flow of
in come indi	ates that a change in cons	umption and inv	lestments can cause a change in
national in	come due to change in aggrege	ate expenditure.	This can be preven by the formula
	AE = C+ I+ G+ (X-1	m) '	
where Cis	consumption. I is investments	G is government	spending, X is exports and Mis
imports.	v		
Weco	in show the changes in n	ational income (due to investments by drawing
			Investments are spendings-man
			pe able to produce a larger quantiti
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AF.	2.21		T IL I
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10-05			nal income would increase from Yot
1	61	Y. W	le can note that the increase in Y
Ø65 /		is larger	A than the increase in aggregate
	DI	expendit	ure. This is due to the multiplier
	Ý. Y.		ich states that a small change i
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333	by ay= kaA5 where k	is the multide	er and kill.
LODOR SOMEC	and the water is	1.2 The monthly	
represented	F = MAR ANDALANT		
1	k = MPS+MPM+MPT	MPNA 2 IL	had and have a large
MPS is the	marginal propensity to save		narginal propensity to import and
MPS is the MPT is the	marginal propensity to save		narginal propensity to import and increase in investments would ca

On the other hand, an increase in savings would cause national income to decrease To understand this, we must note that soving is the alternate con Su mino norticio andata MPS fixed income decreases as Savings + MPC = Sconsymption increase sove by consumers causes the MPC (marginal propensity CONSUME consumers to the gradient Islope of the AE curve decrease (his causes more shallow since pecome the gradient of the AE curve the MPC represents ASA (+)+(+(x+) When consumption ballelecreases the AE N.F. ME + C+ J+G+G++++ shift AE. troom tiona he resu 10 come Agoin M the multi otler akes place happens 03 he Y. income (ay national is signi Scon orger than expenditure (OAE) the decrease in agaregat the aggregate expenditure As we can see changes components. lead to 0 CON larger change in the However, Hence, economists nationa in come. government effe or expand the economy philelu can implement policies to contract multipler However, the multipler value is differen every economy necessory in reality. Furthermore, there is possibility 10 Measured the multiplier a tha making policies inefficient Value than 285 ONE herefore research MUS before policies to contract or expand the economy con be carried out Lip 10

6 b) Keynesian economists stress upon the importance of interest rates in on economy. Interest rates are crucial in the money market as well as the goods market as it determines the money supply in an economy as well as the number of investments made both of which are factors an influencing national income. There have been arguments about whether controlling the interest rate is the best way to increase national income.

The effect of lowering the interest rates to increase national income can be explained using the monetory reachest transmission mechanism. In a money market, interest rates are determined by the demand and supply of money. Suppose the central bank increases the money supply, this would cause a rightward shift of the money supply curve, causing the interest rate to decrease.

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The money supply increases from SM, to SM. causing the interest rate to decrease from to Pre

Interest rates are the most important tactor in fluencing investments. This is because times wanting to invest would require large amounts of capital and would need to borrow these funds from banks. If the interest rate were bigh there would be less incentive for firms to borrow as they would have to pay back more. A fall in interest rates would prompt investments by firms.

In the diagram, MEC is the marginal efficiency of capital When interest rates decrease the arque value from fator. investments made would increase from To MEC firms tend to invest more

Investments are a part of the aggregate expenditure. An increase in investments would couse an increase in aggregate expenditure, and with the aid of the multiplier

cause an significantly large in crease in national income effect. In the diagram, when investments increase, from AE. aggregate expenditure would increase This would result in a significantly OAE larger increase in national income (Y. to the multiplier effect Y, Y, Indeed, the reduction of interest rates would increase national income, and also promote growth. However, a reduction in interest rates can also result in inflation because the aggregate demand in an economy would increase without the aggregate supply shifting In the diagram, when aggregate demand increases from AD, at ceters part bus the national ADo Ho income increases from Yo to Y, but the general price leve AD to P. This signals in flation. If this tram AP. were to happen in the long run, there could be hyperinflation Y 4. the aggraphe supply is stognant Besides that the action of reducing interest rates would be ineffective if the liquidity trap was operative. The liquidity trap occurs when the demand for money is couse the interest rate the money supply would hanging increasing not decrease. The liquidity trap occurs during times of such as natural disasters large scale war happening or during a recession such as the Great Depression and TR The diagram shows the liquidity trap. Although the money MS. Ms. from Ms has Supply peen unchanged at r. Investments would 13 8 increase and national income would not either Gm

In conclusion, although lowering the interest rate does is an effective method to
expand an economy, it is not the only policy available to increase national income.
Ett Fiscal policies such as reducing tax rates and increasing queinment spending can
help increase the national income as well as supply side policies such as the Raagon income
tox cuts in the 1980's a. These policies con increase national income without
causing inflation. The government should carefully review a policy and consider its
effects on the economy before implementing that policy.

This candidate gave a clear and reasoned account of the process of the multiplier in section a) with a conclusion on how an increase in investment or an increase in savings might affect the level of national income. There was a good account in section b) of the link between a change in interest rates and a change in investment. The weakness of the answer in section b) was that although the candidate began the final paragraph with the words 'in conclusion', the paragraph was really a very brief list of possible alternative policies to the use of interest rates. No development of these policies was given. The candidate did not, therefore, develop the answer to deal with the second part of the quotation in the question nor did the candidate draw a conclusion about the argument presented in the question. Overall, however, this was still a good answer.

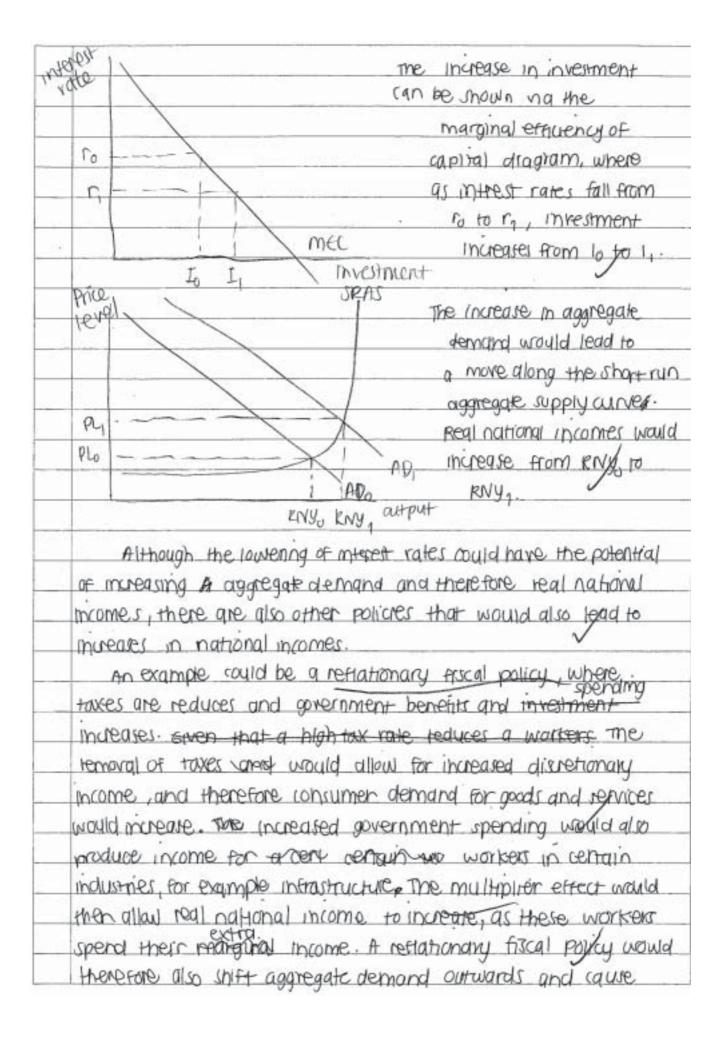
Mark awarded = 18 out of 25

a. An increase in investment wayled mean by the government or firm refers to an injection of money into the economy. When for example, a firm invests, it nimes more factors of production one main ractar of production it nimes would be labour. As a firm hiter more labour, employment in the industry increases, causing increases in disposable income of the workers in the industry. According to the theory of the multiplier, the tax a proportion of income received would be spent on consumer goods by the sonsumption worker, and the proportion they spend on the goods is revised would become income for another person. The multiplier i therefore refers to the number of times money is used in an economy. To calculate the value of the multiplier, we use the formula 1 where 1-MPC

MPC = marginal propensity to consume, i.e. the proportion of money spent on an extra dallar earned by 9 person. An injection, therefore adds to the arcular dow of income between hausholds and firms an increase in income would normally lower the ministrons, and therefore incomes, would normally lower the value of the marge mericane income is earned, while the proportion spent on east an extra dollar earned would fall when the value of the MPC fails, the value of the multiplier increases. This Dautes the hyperbox This means that the extra \$100 earned the by workers of the particular industry would have a much larger effect on the income with in the economy, as money is folled over more times. This causes an increase in real national income.

on the contrary, the desire for a consumer to save refers to a withdrawal from the circular flow of income between households and firms. This withdrawal causes money to be lost from the economy, as it is not spenton goods and

Leav services. The marginal popennity to save (1 - MPC blan refers to the propontion of money an individual saves for an octra dollar earned. An increase in the marginal propensity to save (MPS) would decrease the value of the multiplier, degrease in the multiplier value would mean hence MPS the \$100 that money as not being used the as many times, due to the households saving glarger propertion. This causes of decrease in real national incomes because less people are recreving portions of the extra income earned .- and therefore will 10KOBD/10 b. Interest rates can be used to increase national income. This is because a fall in interest rates would lower the costr of porrowing tor consumers and firms. consumer would benefit from cheaper logns and cheapen mortgage repayments which would increase their descretionary income cless money needed to pay for mortgages). The Howeholds will become more altracted to spending than to saying, as savings would not give good returns and therefore leads to a higher appromybility cost. this moved the the and much when firms can borrow more cheaply, they are more likely to invest acitoset investment would lead to increased real national income, as mentioned in question A. Bothapyth Both increases in consumer spending and increase in investment would contribute to hrahen levels of aggragate demand



Paper 4

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Examiner comment

This candidate gave a correct response to both sections of the question. The weakness of the answer was not that it was incorrect but that it lacked development and discussion. Section a) could have given a fuller explanation of the multiplier process and section b) could have dealt more with alternative policies to interest rate changes.

Mark awarded = 15 out of 25

Question 7

- (a) As an economy develops, the relative importance of different sectors of production changes. Explain, with examples, why the pattern of employment might change as an economy develops. [12]
- (b) Discuss whether increases in economic growth are necessarily beneficial to an economy.[13]

Mark scheme

- (a) The usual division of production is into primary, secondary and tertiary sectors. Developing economies move from a dependence on the agricultural sector through industrialisation. Along with this there is a growth in the service sector – industries relying on IT, call centres, tourism. The changes reflect changes in demand, income, urbanisation, government policy, comparative advantage and competitiveness. [12]
 - L4 For a clear explanation of why the relative importance of the productive sectors of the economy might change with good illustration or examples [9–12]
 - L3 For a less developed explanation with fewer examples [7–8]
 - L2 For a more general descriptive account with lack of comment on the causes of the change and with few examples [5–6]
 - L1 For an answer which has some basic correct facts but includes irrelevancies. Errors of theory or omissions of analysis will be substantial. [1–4]
- (b) Economic growth involves greater production measured by changes in GDP/GNP. This could cause an increase in the standard of living, improved health, education and employment opportunities. There may be disadvantages. Poor working conditions, the growth of externalities, the careless depletion of resources. There may also still be questions of inequality in the distribution of income or whether the increased GDP is spent on things which might not give direct benefit e.g. military research. [13]
 - L4 For a discussion of the overall effect of growth on development presenting both positive and negative aspects with a conclusion. [9–13]
 - L3 For an analysis of the contribution of growth to development but with a concentration on either the positive or the negative aspects with a conclusion. [7–8]
 - L2 For a more descriptive account without much evaluation and without a conclusion. [5-6]
 - L1 For an answer which has some basic correct facts but includes irrelevancies. Errors of theory or omissions of analysis will be substantial [1–4]

[d]
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(b) Economic growth is a very complex phenomenon
which cannot be brought down to asingle deflorition
early by economital Some economists describe economic
growth as an increase in the real per applied income
of the citizens of an economy usually accompanied
by an insprovement in cet welface. According to Ragnar
Nurkce conomic growth has rough do with
hundran endownerk, social Factor, political Factor and
Eistery Additionally economic growth is sheen by
on outward shift in the production porche
possibility curve of an economy. Forcease in economic
growth is not an womited blessing and law both
its positive and exgapine aspects of an enonomy.
To hegin, an increase in economic growth mens
the population to better aff and is earning higher
broop many brough with with proved of
services to enjoy a higher standard of Huma
Therefore the rearrang bas to increase production to
saturey the querts of the consumers with to
app with the increase in agg regate demand, more
workers bave to be employed awe a obrio
employment which reduces the hunder of controlly
to provide For memorlayment perefits.
However For example to relaminities economic grawth
Josu Attai sita pyd 26 sum and cod det
technology in technologia and therefore
Here is non-pregrant jobs. This as been termed
by economics as the "cotalybic crocks syndrome"

Furthermore, an increase in economic growth is hereficial as when more peopleare employed they are more liable to pay have. Thus, the book revenue of the government increases exabling it to firmine more projects and increase economic development in herms of infrastructure, showever, if the government increases the tax threshold, less have cevenue will be atter obtained.

Therefores in economic growth are hereficial as people enjoy of higher standard of living there is less strencful life as more facilities are available for their leisure hime. Allo, economic growth estails that the economy is a favourable place for potential investment. Thus, foreign investors will be attracted to bring foreign Direct Investment because of husiness aphinuting pe prevailing in the economy. This further improves rational income.

Write on both sides of the paper Northing is to he written in However economy growth involves some socieus this marries drawhacks, it conorai's growth refers to increased production of goods and services which limply more pollution and external costs These external costs reduce the economic welfare of the cilizers of the economy. Also economic growth implies higher Standardof living white beings along the "rich-man decease" such as disheter, hypertrision, and cholaterol due to increased consumption. Thus, the extra income From economic growth goes to medical trenet, Along Also, conomic growth an he dissibute when there 3 inequality of destribution prevailing in an economy. For example, I'm Saudi Analla, the Shrink Shriks appropriates all the income leaving the others reither better off nor worse-off. This can lead to revolts by the middle-clars persons and tension in the economy will descourage invertors to much. Also, economic growth can be due to the production of more capital goods than Consumer good. In countries like India where reare produced goods is produced, the country endows economic growth but the topy population does not herefit. A rise in recommin growth a the line when t are makes people hetter off and trey short demanding for imported yorkindeb Ishu imports will definitely worsen the Balance of payment of the economy which may reduce the economy to be indeplied. Economic growth revery reake the Citize If 0

This candidate gave a clear explanation in section a) of the differing importance of the industrial sectors as an economy develops and consumers' expenditure and job aspirations change. In section b) the candidate gave a well-structured answer. It began with the beneficial changes caused by economic growth but this was balanced by a consideration of the drawbacks of economic growth in terms of pollution, changes in income distribution and changes in health, and possible discontent in the population because the economic growth had been fuelled by the production of capital goods which the population did not use.

Mark awarded = 19 out of 25

Paper 4

Example candidate response

(a) the sectors of production involves primary, secondary and tertiery (the services sector). Primary sectors are more majorly agriculture production or raw material minding. Sector secondary sectors involves manufacturing machinary manufactory. The tertiery /sectors are considered as services sector.

A When economy was not developed, the country is majorly rely on primary sectors, with only few secondary, but almost no service sectors, because they have limited capital input to operate machins or services. As economy develops, the amount of a capital available increase, they no longer have to rely on their primary sectors, the because land and labour are not the only factors of production they have. So the amount of primary sectors contribute to overall economy will be lower. In

In short run, the manufactorying sectors will increase their contribution as they have more capital input, but in long run, it will move to the service sector, because they can purchase the primary or secondary product from aboard, but improves the goods and services within the country, to improve the living standard. Also, there is a forth sector where it is for technology developing, and a better technology can improve the genomy growth.

The example of this is # between USA and and Africa. USA is a well developed country while Africa me is not well developed. USA often buy the raw materials atter such as diamond, iron, or other resources from

which is in primary sector. But the service provided in USA blant is super excellent compared to Africa. The reason for change in employment parterns are usually because of people wants a better living standard, and also a easy ind and safe job rav material mining or other primary sector's jobs are very firing and have a risk of dangerous. Also to the service, sector requires high education and good skill , is only which able to generate very well in developed countries. (b) Economic growth is the long term expansion of/productive and apacity in an economy. The rate of equomic growth It can be shown in increasing in real is measured GD and Long Run AS curve Aggregate Supply curve on PPF (LRAS) capital Pl LRAS LRAS . goods -> -) service RNY goods The economic growth result in shift out in PPF out in LRAS. It has a lot of benefits . firstly people are having better living standard because higher income and better service -provided The health car For example : the increased health care · is able to longer people's life expectancy Also during economic growth, commers are having high confidence, therefore a consumption and investment vill

increase which lead to increase in national increme. The technology will also improved in order make better quality product or better infrastructure to make people's life more easier and more enjoyable Hower However | there are some drawbacks. First of all, the environmental concerny. The resources are running out because of higher production, more pollution/and waste created which can affect people's health. Also the entered extinction of species because of mor increasing deforestation and tead to people animal make animals translet home less. Secondary, economic growth can result in more income inequalitypies because most of increasing GDP/aris resulted by rich people, while poors remain poor. It could cause a lot social problems such as crime. Last but not the least, from the phillips curve, we can know that economic growth cause inflation, the graph is shown below: inflation the economic growth will result in less unemployment so people's average income vill increase, so lead higher AD. Business will facing an unemployment increasing pressure on wage, therefore they will a pass the post to consymers. All the firm also want to increase their profit margin, so they rise the price In conclusion, economic growth is a necessarily beneficial to an economy, but the sevearal negative effect should not be

red. Government must intervene the and introduce some by such as supply side policy, to improve the warding a reduce the negative effect on economy. 13	ea. novernment mins	e policio to in	and introduce	entine .
Contraction (100) (100) (100)	poduce the negati	ve effect on	economy.	12
	render me nopin			13

This candidate referred to the change in the importance of the proportion of people employed in different industrial sectors in section a) and considered some of the possible advantages and drawbacks of economic growth in section b). The weakness of the answer was that both sections, although correct, lacked development with either further explanation or discussion.

Mark awarded = 14 out of 25

70) The development of an economy can lead to changes in its structure in terms of goods and services produced as well as the growth and contraction of different sectors. This can cause the employment rates as in an economy to change drastically. Whatever the case of economic development, unemployment is avoidable, as there will definitely be some people who will be unemployed.

As the structure an economy changes the importance of different sectors the mobility changes However in an economy labour conno os well 10 this change as mobility depends largely Feep 4p with DUMON takes time to be instilled. As a result, many labourers who are humon capital with the unable to themselves economic structure change in would Structura laid work FROWN he unemp oyment Indus Revolution In the Great Britain is a dassic example Country dependence on agriculture to manutoeturing farmers began tamiliar they the not processes time where there his resulted in a arge scale Deriod 0 unemploymen Fortunate unemployment torm CHA DR overcome it people are willing by undergoing training and education increase human capital

The growth of economy as smooth as we would like if to be an not 23 fimes huge Oxpansion (boom) when COROMY an the instability of Ames when 2 CONOMY (ecession econom 4 70 0.05 Cocordh sale obal cause the employment trend the times where the economy experiences Actual there is very little unemployment. towever UNING Recession the recession, unemployment would very high known as cyclical employment. An example This is this is the tinancial crisis in 2008 where a large people in the United States faced unemplayment. number of have been improving with the recovery of Since then. employment rates 2 LONDING

growth of In conclusion the the nattern an economy very mu 01 in an economy economy employment Sin ce the macroexanomic One state of On full employment unemplayment the presence of is seen 02 achieve quals is 12 D it is impossible to Onfortunately economy achieve full employment scourge the in in 0 close enough employ men Reanomy bing Con On yll employment 4 L

76) Economic grow is probably the most important of the economic 00015 of Growth is acrossonomu 2919 D the increase conomists govern men growth is e can ania Overa linna in a country here are manu grawth an e conom

Economic growth indicates a higher standard of living of country's of population Since economic the increase in gross growth is indicated as the GDP per capita GDP it also means that ał country Roonomu hig her indicating. that the population is better off d The population is able ncome purchase to economic growth However Usage ot method Stan is e co u se into getoi between the rich come and Qap Door example GDPS ia the One highest However Qqg world 02 twees come GDP there Very large R Growth rich etere does ton higher standard iving better measurement mean the a is Development Index

tonomic growth also promotes employment in an economy. Asan e can om y Sectors he economy would expand and grows Job opportunities the population Create tor However inc employment rate the in employment in creose and he objec keep inflation employmen low as have relationship an in verse 1 15 POSSiple Dot have 42+ rates as wel and 100 have em playment

tonomic growth boost the competitiveness can Reconomi internationally h grant MOREY Can velopment On Services a praduce goods and 2×Pd their mes Goods rices allowing countries RXPOR and thus improve more balance However, country this could olso

In anclusion earnomic growth is beneficial but at the same time	•
hormful to an economy. The government needs to implement suitable policies	
to ensure that the five macroe conomic goals do not conflict with each other of	
and can be achieved.	7
	(n)

This candidate gave a relatively undeveloped answer to section a) which dealt with structural and cyclical unemployment. Although mention was made of a shift between sectors in the industrial revolution in Great Britain the idea of a change in the relative importance of different sectors as a country develops was not elaborated. The answer to section b) had a good structure to it; both the advantages and disadvantages of economic growth were mentioned. The weakness of the answer was that these changes were not developed nor discussed at any length. This was a pity as there was a clear attempt to balance one side of the argument about economic growth against the other.

Mark awarded = 11 out of 25