Qualification Accredited



#### **A LEVEL**

**Exemplar Candidate Work** 

## **ECONOMICS**

**H460** For first teaching in 2015

# H460/03 Summer 2018 examination series

Version 1

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#### Introduction

These exemplar answers have been chosen from the summer 2018 examination series.

OCR is open to a wide variety of approaches and all answers are considered on their merits. These exemplars, therefore, should not be seen as the only way to answer questions but do illustrate how the mark scheme has been applied.

Please always refer to the specification <a href="https://www.ocr.org.uk/lmages/170839-specification-accredited-a-level-gce-economics-h460.pdf">https://www.ocr.org.uk/lmages/170839-specification-accredited-a-level-gce-economics-h460.pdf</a> for full details of the assessment for this qualification. These exemplar answers should also be read in conjunction with the sample assessment materials and the June 2018 Examiners' report or Report to Centres available from Interchange <a href="https://interchange.ocr.org.uk/Home.mvc/Index">https://interchange.ocr.org.uk/Home.mvc/Index</a>

The question paper, mark scheme and any resource booklet(s) will be available on the OCR website from summer 2019. Until then, they are available on OCR Interchange (school exams officers will have a login for this and are able to set up teachers with specific logins – see the following link for further information <a href="http://www.ocr.org.uk/administration/support-and-tools/interchange/managing-user-accounts/">http://www.ocr.org.uk/administration/support-and-tools/interchange/managing-user-accounts/</a>).

It is important to note that approaches to question setting and marking will remain consistent. At the same time OCR reviews all its qualifications annually and may make small adjustments to improve the performance of its assessments. We will let you know of any substantive changes.

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## **Question 31**

31 Using Fig. 1.1, compare the profitability of hosting the Vancouver and London Olympic Games. [4]

#### **Exemplar 1**

4 marks

Van convers total cost is \$ 7556 million and
1000 total revenue is \$1578 million. This means
Bethe loss of \$5978 million is made by hosthy
Com Vancouver @ Otempic games.
Dondon's Potal cost !s \$ [140] millong
and total vevenue is \$3270 millions. The Loss
of \$8131 millions is made by hosting Lunden
Olympic games. B
Both a Vancouver and London Olympic games
vere not profitable as laces are mude.
Were not profifable as laces are made. However, London Olympic huge game to made bygger
loss, Which means it's oven tess profitable. [4]

#### **Examiner commentary**

This answer immediately identifies the total revenues and costs for both Games and correctly calculates the loss made in each instance. This provides the data for the subsequent explanation, with recognition that neither made a profit but that London was the least profitable.

#### **Exemplar 2**

0 marks

Condon had higher costs than
Vancourer in general and sporting
infrastructure. However they also
had significantly higher revenues
in things such as sponsership
and ticketing this meant that
the Olympic games in Condon
had a higher profitability than
Vancouver as they made a profit
, , , , , , , , , , , , , , , , , , ,

Ofl	15 8131 m	COMDA	red to	US\$5	978M
1/)	Vancouv	er			,
	,				'
·····					[4]

This exemplar begins with a vague description of the level of costs and revenues in Vancouver and London, without using the data. Whilst the final values given, for profit suggests the candidate has correctly calculated Total Revenue – Total Cost, they incorrectly conclude that a profit was made in both Games – the lack of a minus sign illustrates a lack of understanding that a loss was made.

5

## **Question 32**

32 Evaluate, using the information in Extract 1, whether expenditure on the Olympic Games represents sustainable investment. [8]

Exemplar 1 5 marks

Defaired investment is investment in Ecological
that neets the needs of the correct generation without
Cousing horn to & investment in guture generations. Expoditure
on the olympic gones libers many that many countries will
rake a loss, it says 'critics point to the loss node by
the majority of provious host cities. This means that the
country will pay for this through borrowing, increasing
the notional debt. This will have to be payed back
and can lead to the government socrificing future investment
to pay it back. Especially & because it can lead to
Severe overcopocity when the event is over mooning the
investment wasn't beneficial for future generations and
Socrificies future investment.
Havever, the investment can be beneficial
to geture generations because it can lead to improvements
in transport infrastructure. This nears that future generation
benefit from the investment and therefore it is sustainable
investment even if it involves scanificing some investment
in the puture. In addition, the same of it may be
funded through contractionary fiscal policy retter than
borrowing so notional debt my not actually increase aby
that much, therefore it isn't sacrificing as much future investment.
Expenditure on the champic genes represents
Sustainable investment due to the benefits of future [8] generations as well as current generations a such as
better transport links.
Mrs ter 11 - Ata

The opening sentence shows clear knowledge and understanding of the concept of sustainable investment. This is followed by relevant application to the case study, recognising that hosting the Games causes a loss and increases national debt. The subsequent analysis is credited as reasonable because it clearly explains the link between rising national debt and sustainable investment, arguing that future generations will lose out as a result of the government having less money to spend on investment going forward because it will be burdened with debt repayments. More technical development on this point – such as including the crowding out effect – would have enabled the answer to earn further analysis marks. Reasonable evaluation is offered as the candidate argues sustainable investment would not be harmed if the Olympics expenditure does not add to national debt and, even if it does, the benefits derived from an improved transport infrastructure would be long term. Further credit would have been given had the candidate explained exactly how future generations would benefit from an improvement in the transport infrastructure – e.g. increased geographical mobility of labour increasing the productive capacity of the economy.

#### **Exemplar 2**

#### 3 marks

In the extract we see a strong case that spending expenditue is sustainable investment Many in favor of the olympics say in the short run the eneconomy will be harmed by huge losses but they can be recouped in the long run as future generations Can benepity Clearly in 2012 Thandon Was a massive regeneration giving "Langible benefits to local residents" with improvements in the transport infrasturcture, futhermore countries may actually benefit in the medium term Suchas Japan who predict they Could boast their economy by \$249 bair they were to host leading to ga multiple occertagguaniacreased tourism and future Canployment. ..... Moures in many case the alympics is for from sustania able as seem in the Britisham olympics where the exclinerace tracks are now weed infested, so there is title use is the billions spent on it Similar [8]

	/
92	Cases are seen in Brazic where
······································	he olympic swimming pools are no
••••	longer even in use with billions spents
•••••	on stadiums which no coresto generations
•••••	and current cannot benefit from
••••••	
····	In conclusion expenditue on framport
	In conclusion expenditure on francoport
••••••	team does not have local an event, people
•••••	lose interest and sporting a rena
	expenditure gaes to maste meaning it
	does not represent sustainable investment.

Knowledge and understanding is shown throughout the first paragraph by identifying relevant evidence from the case study that expenditure on the Olympics represents sustainable investment – e.g. improved transport infrastructure and boost to Japanese economy. However, this material is not taken any further to be credited as analysis. Limited analysis is credited for recognising that the expenditure does not benefit future generations as billions will be spent on facilities that go out of use. This could have been further developed by explaining that the opportunity cost of such expenditure is sacrificing expenditure on alternative projects that may have represented more sustainable investment. Limited evaluation is given for the judgement that correctly states that some of the expenditure on the Olympics (e.g. transport) may be more sustainable that other expenditure (e.g. sports facilities).

Exemplar 3 0 marks

Sustainable muy
Olymp'z gumes represents sustainable invegment
because freign ANS MUCE there bether
reputation on the countries. not have so FDI
WIII increse though long-run, as the extract 2
Says,
······································
However, if the country has heavy regulations,
Such as con envenment, which may
hered to MNCS thinking theof the come operating
in the country is not profitable, then no FDI
Will occur.

In orchevery expanditure on the Olympic george days of prepareture sustanable is without,

#### **Examiner commentary**

The answer begins with a suggestion that hosting the Olympic Games improves the reputation of the country amongst MNCs. However, there is no explanation as to how this leads to increased FDI nor how this represents sustainable investment. The answer then goes further off course by suggesting environmental regulations may limit FDI, without any link to the Olympics or sustainable investment.

9

## **Question 33**

Using the data in Extract 2, explain what is meant by the multiplier effect of Olympics expenditure.

Exemplar 1 2 marks

33	This is when for every investment in the
	the olympics occurs (olympic expenditure), the
*****************	increase in investment leads to an increase in
	GOD by 1.7 threes the original and value
	invested. Fore example, is \$055 100 bittes
	Les invested, rest GDP would increase by
*******	US\$ 170 million.

#### **Examiner commentary**

This answer clearly states that the injection will lead to a greater final change in GDP and offers application from the extract in the form of a numerical example to support this explanation.

Exemplar 2 0 marks

Multiplier effect is where inverse in component of AD
Es such as investment causes further increase in
other component of AD, such as net export.
Olympic expendence is a government gender, which is
a component of AD, which come generated 1065 and increase
burist aprillow. The norther with the general date will increase [2]
Consumption and fourist expursitive is a pirtial export.

#### **Examiner commentary**

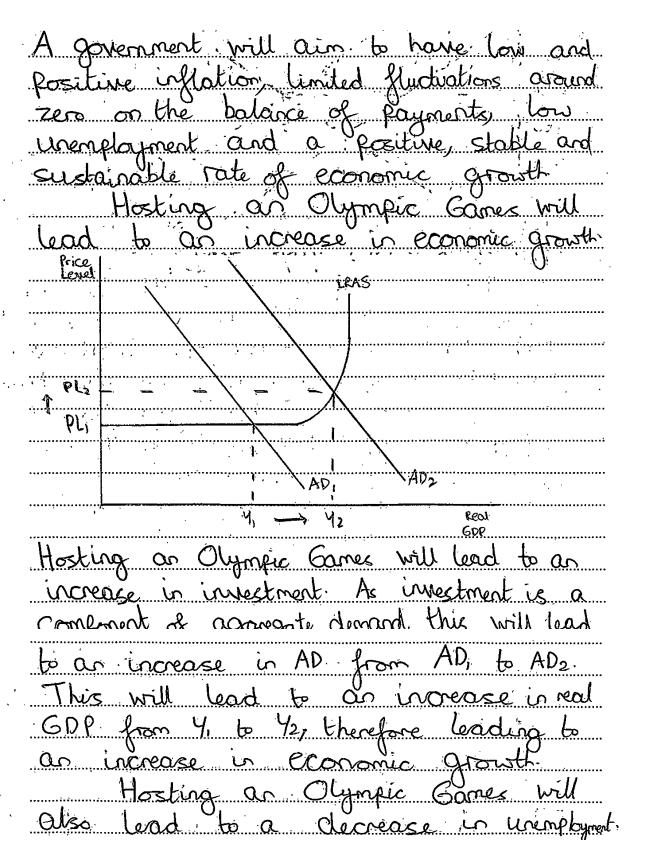
The explanation of the multiplier is too vague. Whilst the candidate recognises an injection may cause further increases in aggregate demand, there is no explanation on the final impact on the economy – a greater final change in GDP/output/expenditure/income. There is also no use of the data in Extract 2 as required by the question.

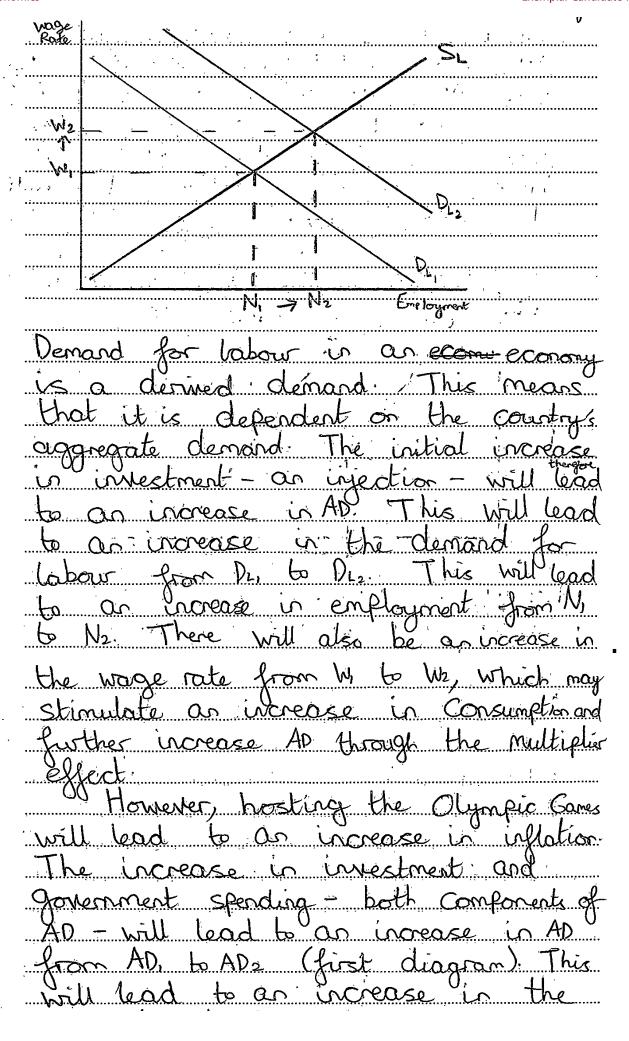
## **Question 34**

34 Evaluate, using the information in Extract 2, the extent to which hosting an Olympic Games has a positive impact on the government's macroeconomic policy objectives. [15]

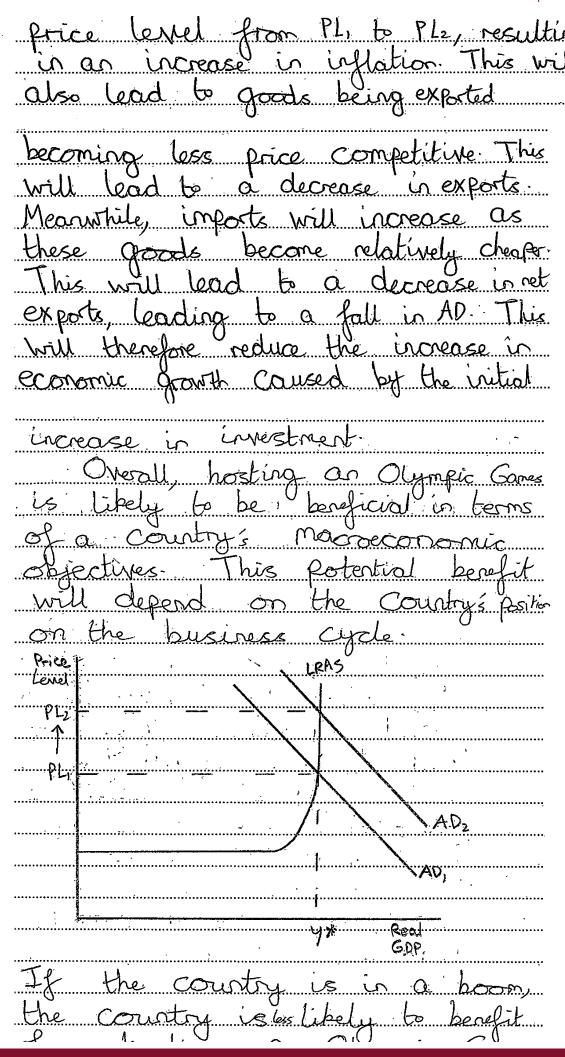
#### **Exemplar 1**

15 marks





12



the initial

#### **Examiner commentary**

Knowledge and understanding of the government's macroeconomic objectives is shown in the first paragraph. Technical economic theory is used throughout the answer to explain the impact of hosting the Olympic Games on these objectives. A clear transmission mechanism between investment and economic growth is offered using aggregate demand, which is then linked to falling unemployment through the concept of derived demand. This is all tied together with the multiplier, making the analysis Strong. Reasonable evaluation is credited for a straightforward exposition of how rising aggregate demand is likely to cause inflation. The evaluation becomes good when the rising price level is linked to falling international price competitiveness, worsening the balance of payments. The candidate offers a well-supported judgement that makes the evaluation strong as they consider the circumstances under which the Olympics are most likely to benefit the economy.

The olympics will have will have
a massive impact on the income
disturbtion with the economy
Olympic games will pravide jobs in
the tourism industry which isknown
for seasonal Tunemployment, this
will mean that in the short run tre
olympics may boost employment
but in the langerum many will pace
but in the langrum many will pace hard times with less proposable income their
Counterparts due to them not being
able to work, as theire is no derived
demand for their labour during certain
periods of the year. Sustainable
growth is also a problem as
the gove conouncy may see a
Spike in the pate of inplation
in certain periods of the year
due to increased tour ism from the
games, but once the games are
over critics often four that indeed
the multiple reprectoccon prom
this tourism will not be sustainable
and at it wany much short term,
even looking at Fig 3.1 we see
that an olympics games hardly
Causes a major change in the vale
Of growth as many rates are similar.
China being a perfect exam of this  the same rate of  with Sin Real GDP (15) ag by 1/0%
with Sin Real GDP (15) ng by 1/0%

For 2002 and 2007, little impact on
growth is actually seen prom
The olympics
However it is thought hat due to
the olympic games theire is
la positive impact on the balance
of puyment in the found of doct
run la creases la tourist exprenditie
and languarincreases in FDI dua
to companies be coming more famile
the country, this will abriously
have a positive impact on economic
growth as components of AD are rising
Causing Economic growth, futre
could be seen in 2012 in London where
81% of people felt provo to be British
whith improved consumer confidorce
economic growth of trem this we
economic growth . From this we
can conclude that if a games is
Successful and well run it can have
es peeltive impact on all economic
agents, causing macroabjectives sucs
as greater in come equality and economic
and Government spending of investment the economy will
of investment the economy will
receive this is dependant how well
It is targeted, in done correctly can
are met because of the gaves.

16

#### **Examiner commentary**

The answer begins with relevant application from the case study that some employment will be generated in the tourist industry. Limited analysis is credited for linking this to the concept of derived demand, although the explanation of the impact on the distribution of income is too vague to be credited. The candidate would have been better served by explaining that once the Olympics is over individuals would return to being unemployed, meaning there is no long run decrease in unemployment as a result of hosting the Olympics. This is followed by a vague explanation of the inflationary consequences of hosting the Olympics, which cannot be credited as it is not grounded in economic theory – linking to rising aggregate demand would have been a route to achieve this. Limited evaluation is credited for using the data from the case study to argue that hosting the Olympics does not boost economic growth, as there is no evidence that growth rates significantly improve as a consequence of hosting. The consideration of the impact on the balance of payments cannot be credited beyond knowledge and understanding because the explanation does not go any further than what is given in the case study. This is another example of when the candidate would have benefited from grounding their answer in more technical economic theory – analytical credit would have been given had they realised that exports (a component of AD) were rising or explaining the changes in the different components of the balance of payments.

Exemplar 3 5 marks

A guerranent will set or have macroeconic
objectives which the wish to achaeve achieve. These
objectives locu at the nation as a whole and
le economic performance
•
A frew dojectives are full employment a stable inflorting
greatur position its Balance of Rymus, reduced
income inequality and economic growth.
I'm olympic fames is a investment more as a
country ains to hest to gaves.
In some eases hosting the Olympia games
lines with some objection.
lover unemployment is said to be achieved. This is
as were employment ecours aloring the booking of
coope to Olympic games. This is an Stadions near to
be built reach improved and general infratronture
in provide All this increase in contraction means that
More people are going to be employed.
This woods mean that the unemployment
level is decreasing and the employment
level is increasing conforming with one of the
Hotel macroeconam objective & to achieve
0

economic grouss. This is where the countries
real GDP has increased. This is achieved as
AD increases as well as government revenue.
As more people are employed, thy now earn a
solary This near that they can now buy goods
as they have a income. This increased consumption
boods AD. As well as this as more people
earn an income the government now earns
greater tax revenue as more people are employed
estimate across in line of our improving the budget.
The extent to ahich hosting the olympic games
has a positive imposed on the governments
Macroecommic objective veries This is as posemunat
will priortise different objectives.
Will the le olympic games may also go against
objectives. One being low (stable inflation 54 a
povernment has increased consumer sperally the lease to
higher AD as domaid his increased which
can led to inflating

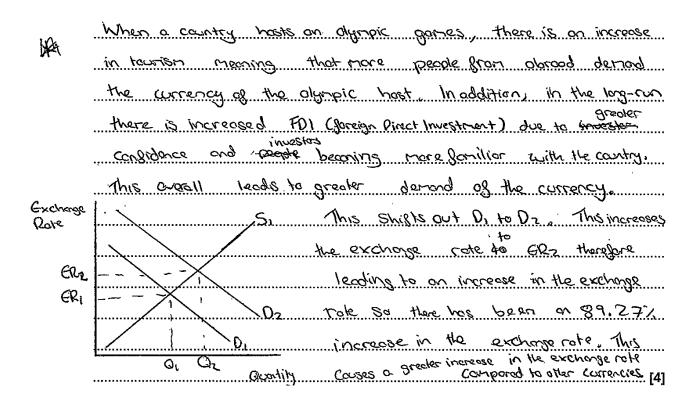
The candidate shows knowledge and understanding of the government's macroeconomic objectives in the second paragraph and goes on to identify that hosting the Olympics will reduce unemployment because construction workers will be required to build the infrastructure. In order for this to be credited as analysis it would need to go further than what is given in the case study, such as by considering the concept of derived demand. Limited analysis is credited for linking the falling unemployment to economic growth through a basic explanation of rising aggregate demand. Limited evaluation is also credited for the basic statement that rising aggregate demand may harm inflation. For the answer to be credited at a higher level deeper analysis would be required, such as by considering whether the growth would be demand or supply side. Consideration of other macroeconomic objectives, such as the balance of payments, would also improve the answer.

## **Question 35**

Explain, using an appropriate diagram, why the changes in the Olympics index, illustrated in Fig. 2.2, may occur as a result of a country hosting the Olympic Games. [4]

#### **Exemplar 1**

4 marks



#### **Examiner commentary**

The candidate explains the reason for an increase in the demand for the currency (increased tourism) and illustrates the impact on the exchange rate on a diagram, which is accurate and correctly labelled.

**Exemplar 2** 

1 mark

When a Country hosts the Digingic games

thore exchange vate will either appear appreciate or

depricate. During the British Olympies the

exchang rate depricated as those was a fall for

the British pound.

Since the poound depricates

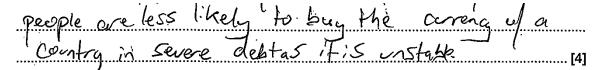
what supply and is worth less the demand to

it decreas from Di to Di

Or This may be because the Olympics

Ory opposed put the Uk in a lot of debt so

19



One mark is given in Exemplar 1 for correctly labelling an exchange rate diagram (axes and curves), but the candidate misinterprets the data in Figure 2.2 to conclude that there has been a depreciation in the exchange rate.

20

## **Question 36**

36 Using Fig. 3.1, describe what happened to bicycle prices in the period 2007–2015.

[2]

#### **Exemplar 1**

2 marks

There was an incre	use in the price	of bycicle overall
There was an inre	The price of	bycicle exceeded
CPI infloten ruse	increse in in	2009 AR Which
mens the real value of	by icle increase.	However, esther years,
mens the real value of to its below CDI,	inhich meuns the	· Neal Value
of becicle fell in		

#### **Examiner commentary**

This candidate does consider the date given on the inflation rate in Figure 3.1 and explains what has happened to real prices. Thea second mark is earned by recognising that the real price was generally falling because nominal bicycle prices were rising by less than the rate of inflation in most years.

Exemplar 2 1 mark

Ovel the	e peliod, the price of bigycles ha	
continued	t to rise to with positive 90 ch	unges
	for every year, except 2012 is	
	change in plice of bikes was	, 
	sag showing inite was a fal	) io
	bikes in that yeal.	
	, , , , , , , , , , , , , , , , , , , ,	

#### **Examiner commentary**

•

In this exemplar the candidate demonstrates that they understand what has happened to nominal bicycle prices over the period, recognising that they have increased in all years other than 2012. However, there is no consideration of the data given on the inflation rate in Figure 3.1, meaning they have not explained what has happened to real prices.

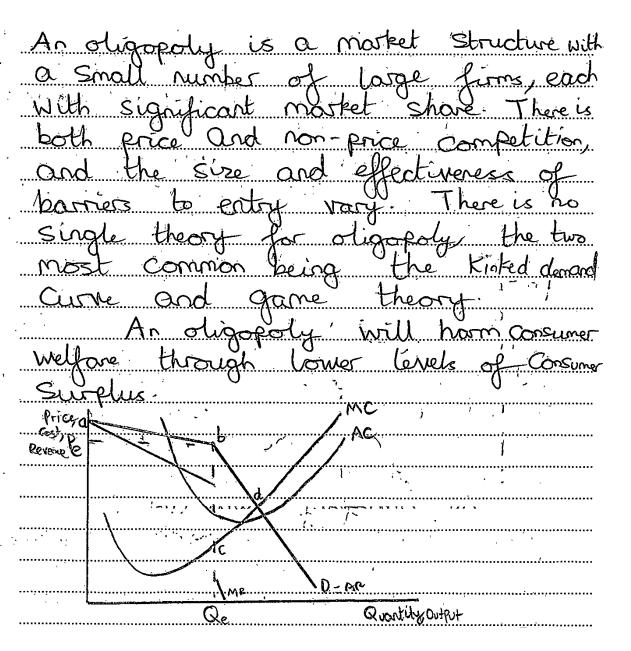
21

## **Question 37**

37 Evaluate, using an appropriate diagram, the extent to which consumer welfare is harmed as a result of the bicycle industry being an oligopoly. [15]

#### **Exemplar 1**

15 marks



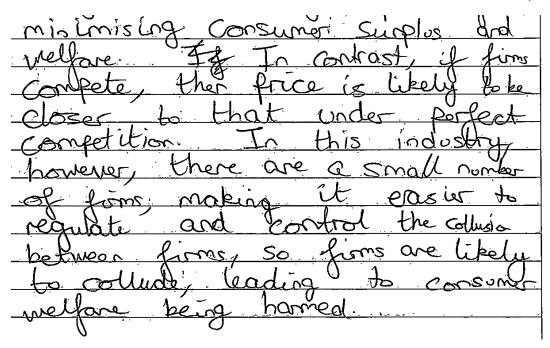
Under a Kinked demand curve model, domond is relatively frice clastic up to a quantity a first which demand is relatively inelastic. Output is determined where MC=MR, with MC passing through the discontinuity of the marginal revenue curve. Firms produce at MC=MR because they will

forgo additional profit at lower levels
forgo additional profit at lower levels of output, but will make a loss of
on any unite froduced beyond a Demand
is relatively elastic at outputs below
a. This is because an increase in
frice by one firm is unlikely to be followed
frice by one firm is unlikely to be followed by other firms. Equally firms will not
fraduce at an output above Q - this is
because one firm choosing to lower their
frice will lead to all other firms also
Lowering their Price resulting in relatively
relastic demand. Consumer surplus
will therefore only consist of the area
leab, leading to lower consumer welfare
compared to other market structures with
increased Competition
An oligopoly will also harm consumer welfare through a decrease in allocative
melfare through a decreose in allocative
efficiency Firms under oligopolistic Competition
are Characterised by their interdependence and
Price, 1
Cost, Pin Revenue
Po Total
The state of the s
MR D=AP
Qn Qo Qe Quantity,
Strategic behaviour. This will lead to
Some level of both frice - and non-

© OCR 20°

frice Competition. This means the
oligopoly is likely to froduce of an output of Qo and a price of o
an output of Qo and a price of o
Po, between that under ferfect
Competition and monopoly. As price is not equal to marginal cost.
the industry will be not allocatively
efficient. This will lead to a dead-
weight loss of area bed first
diagram), Some of which will be
burdened by the consumer leading
to a decrease in consumer welfare. However, under a game theory
Model, oligopoly leads to a high
level of consumer welfare.
leviel of consumer welfare.  Firm Aria B  High Price Low Price figure on left is
Firm High 25 25 30 5 A's positive to
Firm Price 25, 25 , 30, 5 A's profit, right  B tou 5,30 10, 10 is 8's Profit  T 11 11 11 11 11 11 11 11 11 11 11 11 11
Initially, both firms (in this
duopoly model) will charge a high
price: However, it is the dominant
Strategy of both firms to lower their Price, will increase frofit from 6.25 to
£30. As both firms choose to lower
their price a Mash equilibrium whose
firms minimise total profits is readed
OThis will lead to consumer
Welfare being maximised.
models do not take into account
Or changes in the quality of bikes
. 0
Under oligopoly, firms have fireds
for froduct innovation as a result

abnormal harred not consumer 2nd



Diagrams are used to excellent effect throughout this answer. The candidate offers strong analysis of the implications of an oligopoly by explaining the loss in consumer surplus that occurs as a result of collusion, explained through the kinked demand curve. The candidate later explains that the loss in consumer surplus will be even greater if by colluding the oligopolists are effectively able to operate as a monopolist. A range of arguments are offered in evaluation, firstly through the use of game theory to explain that oligopolists are likely to engage in price wars, which will benefit consumers. The point is also made that even if firms do make supernormal profits this could benefit consumers in the form of better quality bicycles. Finally, the candidate reaches a well developed judgement that argues contestability is an important consideration when evaluating the impact of oligopolies on consumers, as in a contestable market oligopolists will not be able to profit maximise and therefore do the harm that was suggested in the analysis.

Exemplar 2 9 marks

Evaluate, using an appropriate diagram, the extent to which consumer welfare is harmed as a result of the bicycle industry being an oligopoly.

An oligopoly occurs when there are only a lew lims in that morket for the example.

The bicycle industry is an oligopoly as there are only a lew big suppliers of bikes who hold a high maket share. There are only a lew big suppliers of bikes who hold a high maket share. There are high borriers to entry and exit making if very hard for new lirms to join the market and third down prices, thus since there are so few supplies pices can be a vite high. This horns consider welfare as the allowing.

26

s wase home the potential to make Price Flastic Demand

go to a substitute im as all prices howe been riserrather than just one of the ims. This colleded price rise will increase the oliq opolies profit morgins, as they will be reciently more for the goods they sell. This will decrease consumer welfore as they are being therefore more for a good and are thus, howing to spend more of their income.

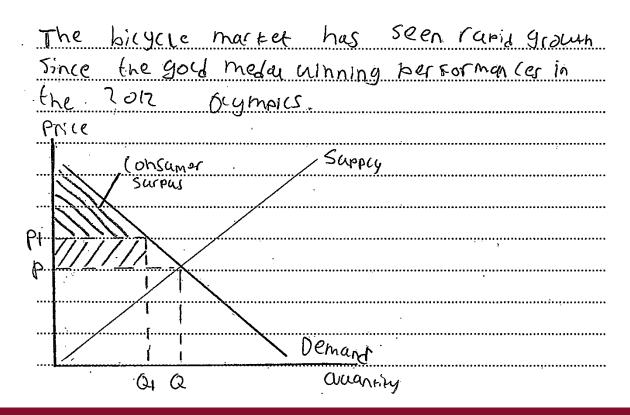
Overall in digropoly. Should have a their income.

Overall in digropoly. Should have a consumers welfore as they have the empirity to set high prices, however dut to price rigidity this may not always be the case.

#### **Examiner commentary**

The candidate shows good knowledge and understanding of the model of oligopoly applied to the bicycle industry at the start of the answer. The statement that consumer welfare is harmed as a result of oligopolies making a supernormal profit is credited as limited analysis, but the opportunity to be credited as analysis at a higher level is lost by missing the key insight of kinked demand curve theory. Whilst the candidate uses the kinked demand curve to conclude that consumers will benefit from stable prices (for which they are credited with limited evaluation), they could have used it to illustrate the incentive for collusion and therefore high prices. In the following paragraph the reference to collusion causing high prices is enough to take the analysis to reasonable, but this could have been higher had this explanation been integrated with the discussion of the kinked demand curve. The judgement does not take the answer any further as it is simply a restatement of the points made earlier.

Exemplar 3 5 marks



The diagram aboute shows the increase price from P to PI as a resource bilylle industry being an Oligopour he iher ease in Prile cuso Shows the reduction in Consumer Surprus from pto pirthis shows that Con summer here is hurned as a reson of lack of COMPENHOR. Evens Lycles, floursours and higgle dominage the marker accounting for market market them, this muy hear precis to increwe prices as there is Therustic demand fais is proven as Customers are haling 160 parchase bites. Wiggles recent fakeover of a Mua Chain Surtner Mireuses the Origopous power by well as increasing the barriers to entry as set up loss wire increase. Hower & However the rising price muy be due to bityle earlyment improving dramatically over the years. The increase Inhovation such as electroni gears and Curbon fibre meuns modernday bityches are incomparable with those on sur To years ago: The amount o independently Owned bite Shops increasing by Over 10%. over the past decape it is year for a steportunity in the expunding

a desire	to ease	itrassic	congest	i bh
reduce pe				
the POF				
thur the 1				
but bites		• • • • • • • • • • • • • • • • • • • •		
Overau, I			fare is h	arned
a increa	use in ol	igopous po	uer, thi	r is
lue to to				
(ompetition	• -		•	

Limited analysis is offered as there is recognition that collusion can result in high prices. This is applied to the bicycle industry with reference to the firms mentioned in the case study. However, no oligopoly diagram is presented. The answer would have benefited from use of kinked demand curve theory. The answer moves on to offer limited evaluation by suggesting that rising prices may not have been caused by oligopolists exploiting their market power but instead as a result of improvements in the quality of bicycles.





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