

Candidate Marks Report

Series : 6 2018

This candidate's script has been assessed using On-Screen Marking. The marks are therefore not shown on the script itself, but are summarised in the table below.

Centre No :	Assessment Code :	H460
Candidate No :	Component Code :	03
Candidate Name :		

Total Marks : 43 / 80

In the table below 'Total Mark' records the mark scored by this candidate.
'Max Mark' records the Maximum Mark available for the question.

Paper:	H460/03
Paper	43 / 80
Total:	
Question	Total / Max Mark / Mark
1	1 / 1
2	1 / 1
3	1 / 1
4	0 / 1
5	0 / 1
6	0 / 1
7	1 / 1
8	1 / 1
9	1 / 1
10	0 / 1
11	0 / 1
12	0 / 1
13	1 / 1
14	1 / 1
15	1 / 1
16	0 / 1
17	0 / 1
18	1 / 1
19	0 / 1
20	1 / 1
21	0 / 1
22	0 / 1
23	0 / 1
24	1 / 1
25	1 / 1
26	0 / 1
27	1 / 1
28	1 / 1
29	0 / 1
30	1 / 1
31	4 / 4

32	$2 / 8$
33	$0 / 2$
34	$10 / 15$
35	$1 / 4$
36	$1 / 2$
37	$9 / 15$

SECTION A

Answer all the questions in this section.

Write your answer for each question in the box provided.

1 What is a free good?

- A A good that is available with no opportunity cost
- B A good that is non-excludable and non-rival
- C A good that is provided by the government
- D A good that is scarce

Your answer

A



[1]

2 Which of the following is a component of the Human Development Index?

- A Air quality
- B Cost of crime
- C Income inequality
- D Life expectancy at birth

Your answer

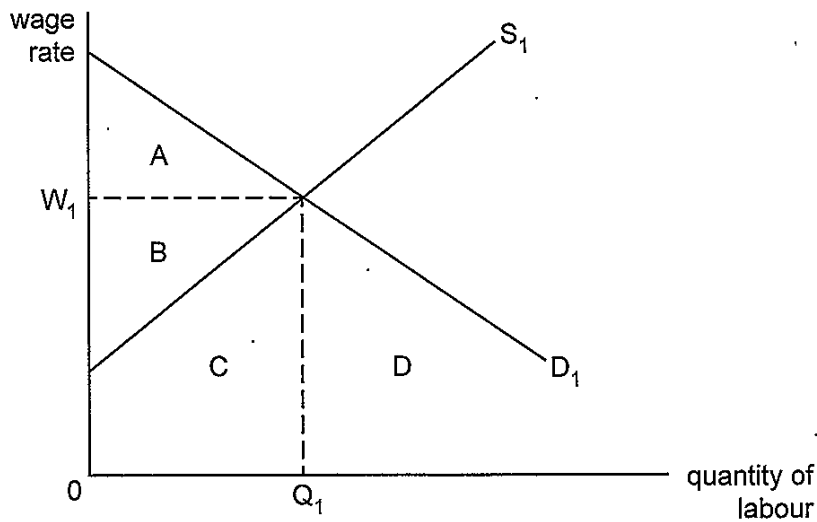
D



[1]



3 In the diagram below, which area represents transfer earnings?



- Area A
 Area B
 Area C
 Area D

Your answer



[1]

4 Which of the following identifies the stages of the economic cycle experienced by the UK economy between 1998 and 2016?

	1998–2007	2008–2009	2010–2014	2015–2016
<input type="radio"/> A	Boom	Recession	Recovery	Slowdown
<input checked="" type="radio"/> B	Recession	Recovery	Boom	Slowdown
<input checked="" type="radio"/> C	Recovery	Recession	Boom	Slowdown
<input type="radio"/> D	Slowdown	Recession	Recovery	Boom

Your answer



[1]



5 A firm could lower its average costs whilst keeping its output the same. What type of inefficiency is occurring?

- A Allocative inefficiency
- B Dynamic inefficiency
- C Productive inefficiency
- D X-inefficiency

Your answer

A



[1]

6 In which of the following cases will the natural rate of unemployment increase?

- A Regional house price differentials increase
- B The demand for labour falls
- C The school leaving age increases
- D Unemployment benefits decrease

unemp ↑

Your answer

B



[1]

7 In August 2016 the Bank of England's Monetary Policy Committee announced it was cutting the base rate of interest from 0.5% to 0.25% and extending its programme of quantitative easing. What is likely to happen as a result of this decision?

- A Decrease in government tax revenue
- B Decrease in inflationary pressures.
- C Exchange rate depreciation
- D Increase in marginal propensity to save

Your answer

C



[1]



8 Danielle has just been appointed to manage a large public limited company that has a range of stakeholders, including shareholders, employees and customers. Which business objective is Danielle most likely to pursue?

- A Profit maximisation
- B Profit satisficing
- C Revenue maximisation
- D Utility maximisation

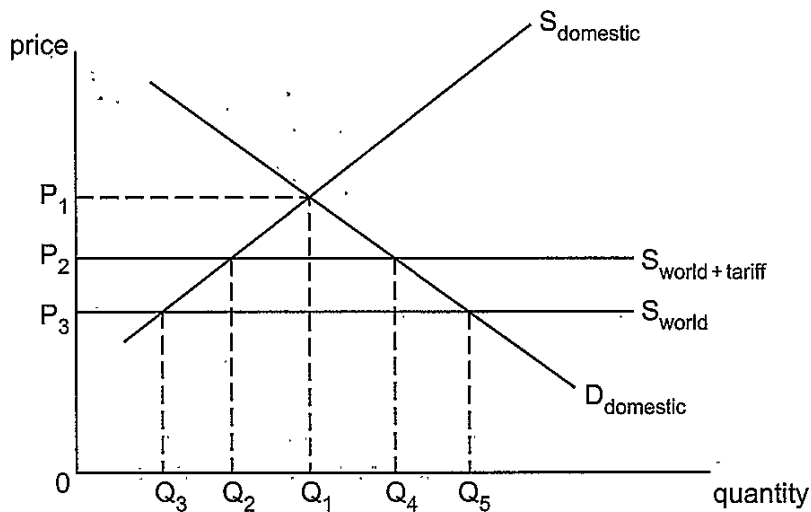
Your answer

B



[1]

9



In the diagram above, what is the new level of imports if a tariff is removed?

- A $Q_2 - Q_3$
- B $Q_4 - Q_2$
- C $Q_5 - Q_3$
- D $Q_5 - Q_4$

Your answer

C



[1]



10 Using the Fisher equation of exchange, what is the money supply in an economy where real GDP is £400bn, the price level is 3 and the velocity of circulation of money is 4?

- A £300bn
- B £400bn
- C £533bn
- D £1200bn

£400

Your answer

C



[1]

11 600 units of a good are demanded at a price of £8. If the price elasticity of demand is -0.75 , what is the level of demand when the price falls by £3?

- A 431
- B 769
- C 870
- D 881

$$\frac{QD}{P} = -0.75$$

375

Your answer

A



[1]

12 The proportion of the working age population in the labour force increased from 76.8% to 78.4% between 2006 and 2016 in the UK. What would have increased as a result of this change?

- A Dependency ratio
- B Employment rate
- C Participation rate
- D Replacement ratio

Your answer

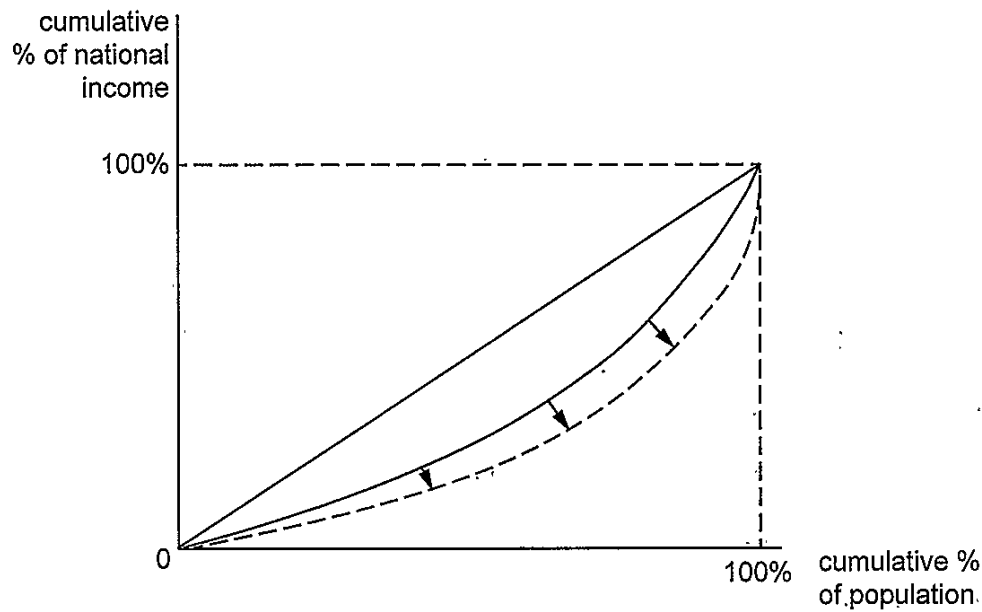
D



[1]



- 13 The initial distribution of income in a country is shown by the continuous line in the diagram. It then changes and the new distribution is shown by the dotted line. Which one of the following statements describes this change?



- A Absolute poverty has increased
- B Income inequality has increased
- C Relative poverty has decreased
- D The Gini coefficient has decreased

Your answer

B



[1]

- 14 Which one of the following is a defining characteristic of a contestable market?

- A Collusion
- B Long run supernormal profits
- C Many small buyers and sellers
- D No barriers to entry or exit

Your answer

D



[1]



15 In which of the following cases is the interest rate charged on borrowing likely to be lowest?

- A High risk and high security
- B High risk and low security
- C Low risk and high security
- D Low risk and low security

Your answer

C



[1]

16 What is meant by the term 'negative output gap'?

- A Actual GDP is below potential GDP
- B Negative externalities resulting in over-production
- C The economy is operating beyond its production possibility frontier-
- D Two consecutive quarters of negative economic growth

Your answer

C



[1]

17 In August 2016 scientists published a report indicating that eating red meat resulted in an increased risk of death. Prior to this report being published, what was likely to be the initial cause of this market failure?

- A Overconsumption
- B Overproduction
- C Underconsumption
- D Underproduction

Your answer

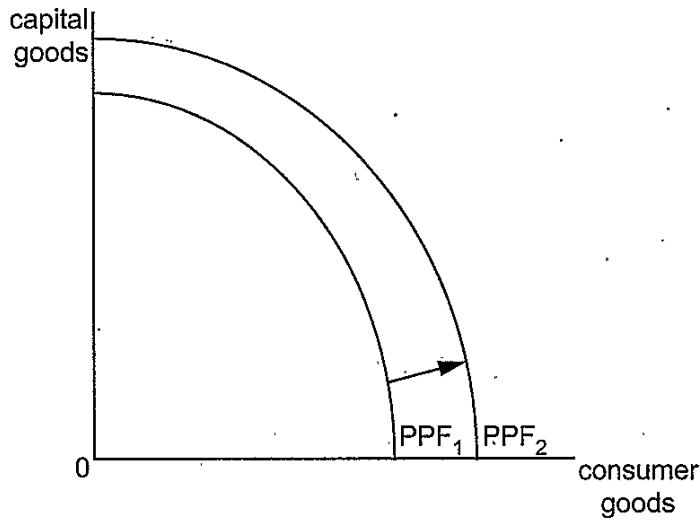
C



[1]



18 Which of the following could have caused the shift from PPF₁ to PPF₂ illustrated in the diagram below?



- A A decrease in unemployment
- B A natural disaster
- C An increase in immigration
- ~~D A reallocation of resources from the production of capital goods to consumer goods~~

Your answer C



[1]

19 Which of the following identifies the components of aggregate demand that are likely to be affected by an increase in household income?

	Consumption	Investment	Government spending	Net exports
A	/			
B	/	/		
C	/	/	/	
D	/	/	/	/

Your answer B



[1]



20 What is an advantage of EU membership?

- A Member states have tariff free trade with the rest of the world
- B Member states have control over fiscal and monetary policy
- C There are no trade barriers between member states
- D The same currency is shared by all members

Your answer

 C


[1]

21 What does the environmental Kuznets curve illustrate?

- A Environmental degradation is negatively correlated with economic growth
- B Environmental degradation is positively correlated with economic growth
- C The correlation between environmental degradation and economic growth changes from negative to positive as a country develops
- D The correlation between environmental degradation and economic growth changes from positive to negative as a country develops

Your answer

 C


[1]

22 An economy has three leakages from its circular flow of income – savings, tax and imports. Its national income multiplier rose from 2 to 2.5 between 2015 and 2018. Over this period its marginal propensity to save fell from 0.14 to 0.02 and its marginal rate of tax increased from 0.17 to 0.22. What was the change in the country's marginal propensity to import over this time period?

- A A fall from 0.19 to 0.16
- B A fall from 0.50 to 0.40
- C A rise from 0.69 to 0.76
- D A rise from 1.69 to 2.26

$$0.14 + 0.17 = 0.31$$

$$0.24$$

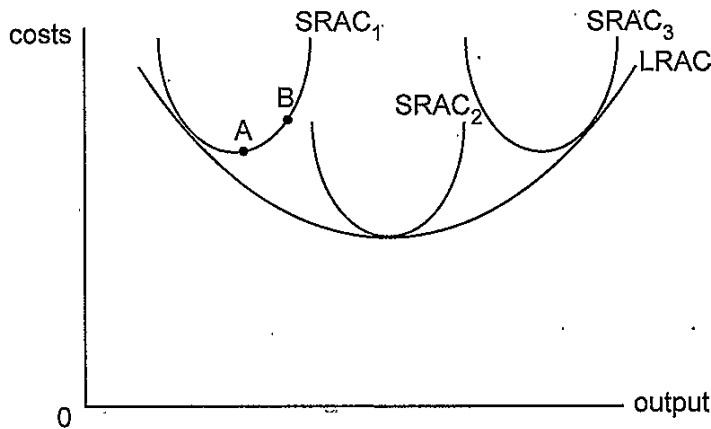
Your answer

 C


[1]



23 Which of the following concepts is represented by the movement from A to B in the diagram below?



- A Allocative inefficiency
- B Diminishing returns
- C Diseconomies of scale
- D Economies of scale

Your answer C ✗

[1]

24 Which of the following is a disadvantage of the division of labour for a firm?

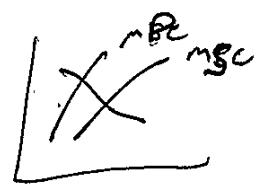
- A Firms are more reliant on individual workers
- ~~B Less time wasted switching between tasks~~
- ~~C Repetition improves productivity~~
- D Quality increases as a result of more skilled workers

Your answer A ✓

[1]

25 What is a consequence of the market failure caused by positive externalities of production?

- A Marginal private benefit exceeds marginal social benefit
- B Marginal private cost exceeds marginal social cost
- C Marginal social benefit exceeds marginal private benefit
- D Marginal social cost exceeds marginal private cost



Your answer B ✓

[1]

Turn over



- 26 What is the relationship between the UK government and the Bank of England?
- A The Bank of England sets the inflation target and interest rate independently of the government
 - B The Bank of England sets the inflation target and the government sets the interest rate
 - C The government and the Bank of England work together to set the inflation target and the interest rate
 - D The government sets the inflation target and the Bank of England sets the interest rate

Your answer

A



[1]

- 27 If the aim of an indirect tax is to reduce consumption, which of the following elasticities of demand represents the situation in which the tax will be most effective?

- A Elastic
- ~~B Inelastic~~
- ~~C Perfectly inelastic~~
- D Unit elastic

Your answer

A



[1]

- 28 Which of the following identifies a difference between the neo-classical and Keynesian approach to macroeconomic thinking?

	neo-classical	Keynesian
A	Aggregate supply is perfectly inelastic in the long run	There is an elastic section of the aggregate supply curve
B	Fiscal policy can affect real output in the economy	Fiscal policy cannot affect real output in the economy
C	Prices and wages are not always flexible	Prices and wages are always flexible
D	Unemployment is caused by demand side factors	Unemployment is caused by supply side factors

Your answer.

A



[1]



29 A country's nominal GDP in 2013 was £800bn. The nominal growth rate in 2014 was 5%. Using the price index below, what is real GDP in 2014 at 2010 prices?

Year	2010	2011	2012	2013	2014	2015
Price index	100	105	112	116	120	127

672 800

- A £700bn
- B £720bn
- C £812bn
- D £840bn

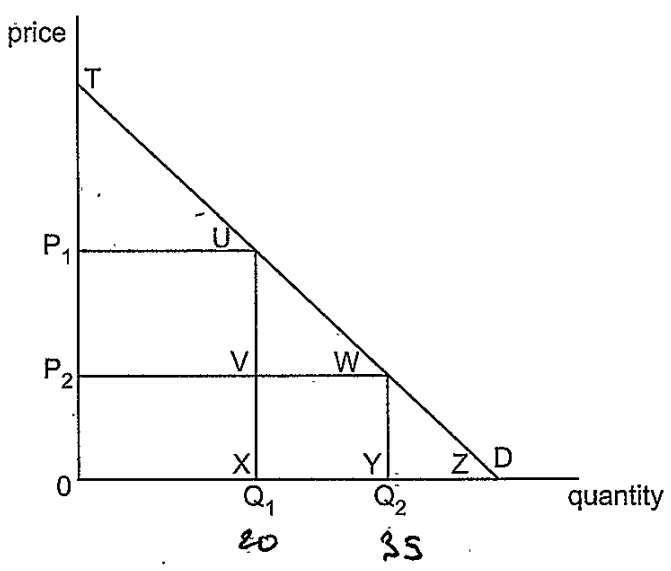
Your answer C



$100^2 = 80$
 $5 = 40$
 $= 8$

[1]

30 In the diagram below, price is initially set at P_1 with 20 consumers purchasing Q_1 amount. The price is then reduced to P_2 . The initial 20 consumers continue to purchase Q_1 amount. The lower price attracts 15 new consumers, causing the total quantity demanded to rise to Q_2 . What is the area of consumer surplus enjoyed by the new consumers?



- A P_1UWP_2
- B VUW
- C $XVWY$
- D YWZ

Your answer B



[1]



SECTION B

Read the following extracts and answer all questions which follow.

Extract 1 – Is hosting the Olympic Games a profitable business?

In the build up to the 2016 Rio Olympic Games, Brazilians were divided over the merits of hosting the world's largest sporting event in their country. With the economy in recession for the second year running and costs spiralling 50% over budget, many argued that the \$4.6bn could have been better spent in this developing nation. Such critics point to the loss made by the majority of previous host cities as evidence of wasteful expenditure.

Fig. 1.1 summarises the financial implications for Vancouver and London, hosts of the 2010 Winter and 2012 Summer Olympics respectively. A significant proportion of Olympics revenue goes to the International Olympic Committee (IOC); the figures detailed in Fig. 1.1 reflect what was kept by the host nations.

Fig. 1.1 – Vancouver 2010 & London 2012 Olympic Games Costs & Revenues

	Vancouver 2010 (\$ millions, USD)	London 2012 (\$ millions, USD)
Costs		
General infrastructure	3,497	5,970
Sporting infrastructure	715	1,790
Other	3,344	3,641
	<i>7556</i>	<i>11401</i>
Revenues		
Broadcasting rights	414	713
Sponsorship	863	1,450
Ticketing	250	988
Licensing	51	119
	<i>1578</i>	<i>3270</i>

However, those in favour of hosting the Olympic Games argue that these statistics significantly underestimate the benefits, many of which will be felt for generations to come. Improvements in the transport infrastructure can enhance productivity, whilst the regeneration of East London in 2012 provided tangible benefits to local residents.

Critics question whether the long run benefits from the Olympics are better than those which would have resulted from alternative infrastructure projects. For example, significant investment to meet a three week period of peak demand may result in severe overcapacity once the event is over, illustrated by the now weed infested cycling racetrack used for the Beijing Olympics.

Recognising that many potential hosts were being put off by the rising costs of hosting an Olympics, the IOC published its Olympic Agenda 2020 in December 2014. At the centre of the agenda is a desire to include sustainability in all aspects of the Olympic Games, in doing so improving the economic viability of hosting the spectacle.



Extract 2 – The Olympic Games as a macroeconomic stimulus

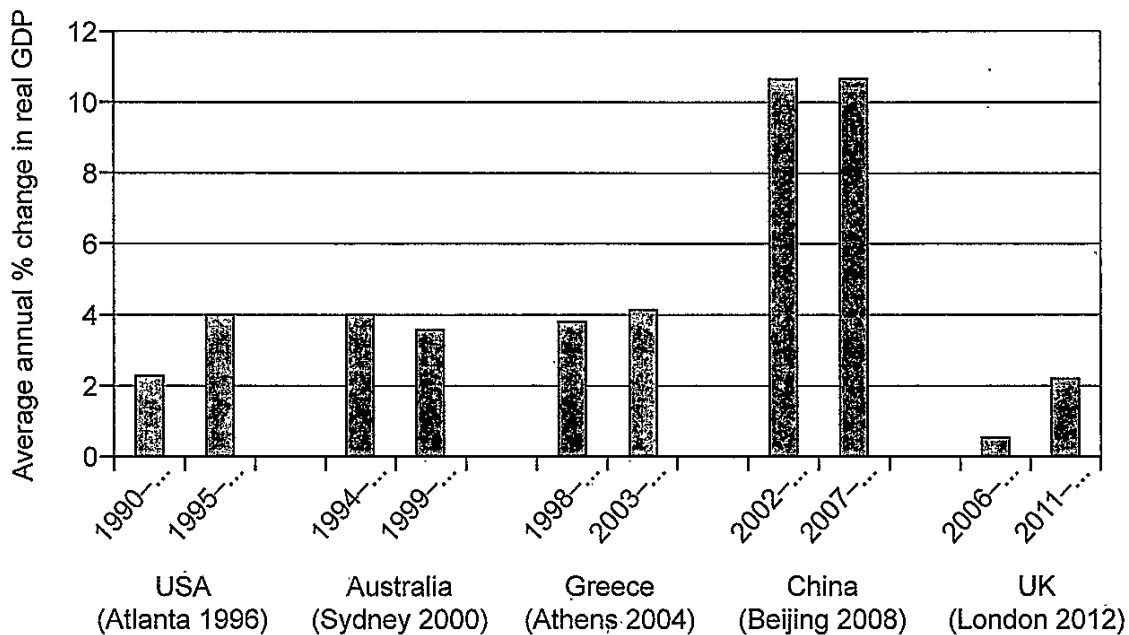
Despite the significant costs involved governments around the world remain attracted to bid for the Olympic Games because of the wider macroeconomic stimulus hosting the event can provide. The Bank of Japan has estimated that the Japanese economy could be boosted by up to \$249bn as a result of hosting the next games in Tokyo.

In many ways expenditure on the Olympic Games can be seen as an example of expansionary fiscal policy, generating thousands of jobs in construction in the build up and a significant amount of tourist expenditure. Economists estimate the multiplier effect of Olympics expenditure to be approximately 1.7; this wider economic effect is used to argue that in the long run hosting the Olympics more than pays for itself. Indeed, the macroeconomic stimulus proved particularly timely for the UK, which was in the midst of recovering from the global financial crisis when the 2012 London Games took place.

However, the size of the injection into the economy from hosting the Games is generally overstated. This is in part because it ignores the substitution effect: money spent on the Olympics by local residents is money that would have been spent on other goods and services had the Olympics not taken place. Projected increases in tourism also fail to take into account the number of people who choose not to come to the country during the Olympics, with holiday or business travellers put off from coming to the country because of the crowds associated with the Olympics. In both Beijing and London tourist numbers during 2008 and 2012 were actually lower in total than in the previous year. Moreover, whilst the employment gains are particularly beneficial during a period of recession, this will only ever occur by chance rather than design, given the Games need to be bid for seven years in advance. When the Olympics takes place in a country during the boom phase of the economic cycle the gains from employment are limited, workers simply switch from alternative employment towards Olympics related employment.

Fig. 2.1 compares historical growth rates with the rate of economic growth experienced by countries in the five year period during which they hosted the Olympic Games.

Fig. 2.1 – Economic growth rates of Olympic hosts



The long run consequences of hosting an Olympics are just as debatable. Some argue that the legacy of hosting the event has a powerful long term impact as a result of improved infrastructure and urban regeneration. Shortly after the 2012 Olympics a BBC survey found evidence of a 'feel good effect', with 80% of people saying they felt proud to be British. This could have an impact on confidence and therefore the propensity to consume.

Ultimately, the gains from tourism depend on the nature of the host city prior to the Olympics taking place. Whilst Barcelona and Salt Lake City saw a sustained increase in tourist numbers after hosting, this is largely attributed to them being destinations that were not popular before. Cities such as London clearly stand to gain less given London was already the world's most visited tourist destination before hosting the games.

The Olympics is also thought to have a positive impact on a country's balance of payments, with short run increases in tourist expenditure and long run increases in foreign direct investment as a result of companies becoming more familiar with the country. Fig. 2.2 outlines the impact on the exchange rates of host countries through use of the 'Olympics index'. This is constructed by following the host country's exchange rate in the four years prior to the Olympics taking place – for example, between 2004 and 2008 the Chinese Yuan is used for the index in the build up to the Beijing Olympic Games.

Fig. 2.2 – Exchange rate changes of Olympic hosts compared to other currencies, 1980–2012

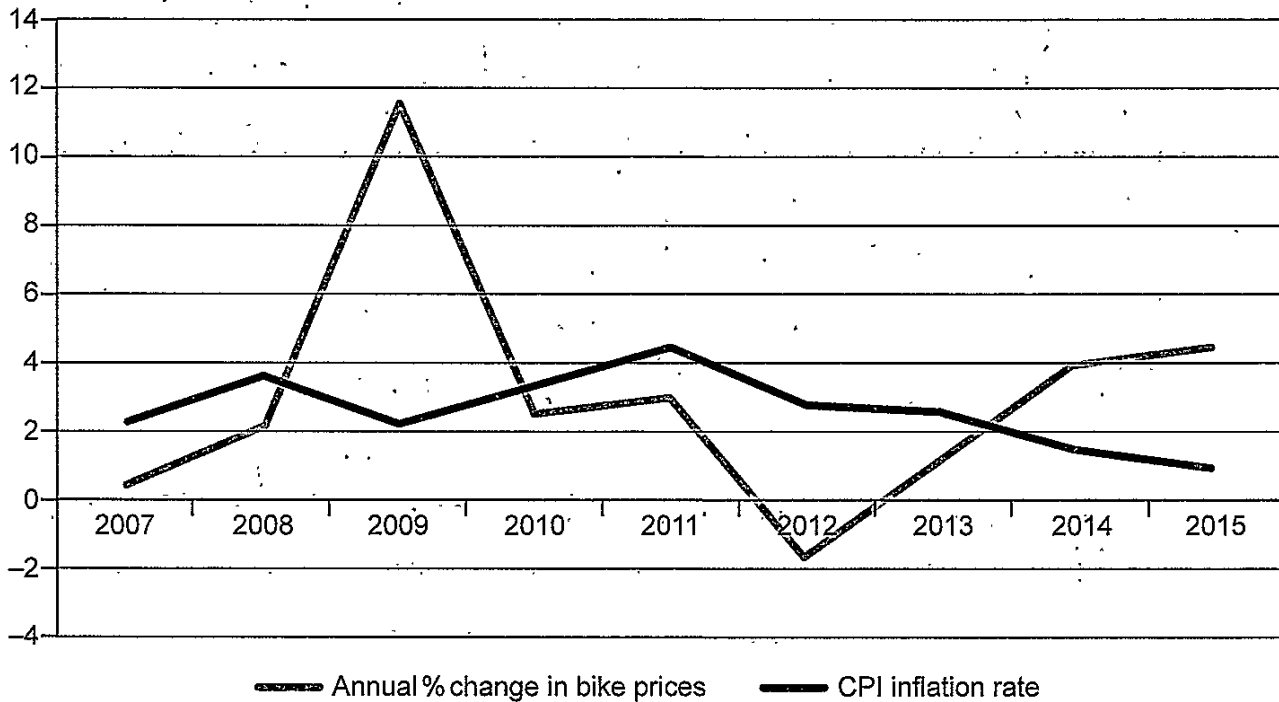
Currency	Exchange Rate Change 1980–2012 (%)
Australian Dollar	19.78
British Pound	-21.52
Indian Rupees	-45.11
Japanese Yen	53.72
Olympics Index	89.27
US Dollar	4.46



Extract 3 – Growth of the UK bicycle market

Gold medal winning performances by British cyclists has contributed to the rapid growth seen in the bicycle market. The increase in popularity of the sport has coincided with large scale infrastructure investment in cycle networks around the UK. This has been driven by a desire to ease traffic congestion, reduce pollution and improve the health of the population. Fig. 3.1 illustrates how the price of cycling has changed over time in the UK.

Fig. 3.1 – Bike prices & inflation in the UK 2007–2015



With £12,000 bikes now available to, and purchased by, consumers, some blame the rising cost of cycling on the lack of competition in the bicycle market. Evans Cycles, Halfords and Wiggle dominate the market, accounting for over 50% of market share between them, with Wiggle's recent takeover of rival Chain Reaction further increasing the collective power of these three retailers.

An alternative explanation for the rising price of bicycles is the fact that bicycle equipment has improved dramatically over the years. Innovations such as electronic gears and carbon fibre mean modern day bicycles are incomparable with those on sale 20 years ago. With the number of independently owned bike shops increasing by more than 10% over the past decade, it is clear firms are looking to take advantage of this ever expanding market.



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

Overall the figures in 11 show us that both cities made an overall ~~loss~~ monetary loss during their olympics. It costed London \$11,401 million where as they only made \$3,270 million. This gives them an overall loss of \$8,131 million. Where as for Vancouver it costed \$7,556 million but they only gained \$1,578 million in revenue. This gives them an overall loss of \$5,978 million. Both cities made an overall loss however London made more of a loss by \$2,153 million. Neither cities made a profit financially, However the olympic games [4] may encourage tourists to return in future which would stimulate economic growth.



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

Typically, expenditure on the Olympic Games does not represent sustainable investment because the costs of it are higher than the profit you make out of it, since costs exceed profits, it is not sustainable as you will always be making a loss. For example London made an overall loss of \$8,131 million and Vancouver made an overall loss of \$5,978 million.

However it is also important to consider the benefits of hosting the Olympic Games, such as in London due to the Olympics there was "improvements in the transport infrastructure" which "can enhance productivity". There was also significant "regeneration in East London". Even though the Olympics may be financially expensive there are many benefits of it that may stimulate economic growth and improve people's quality of life and standard of living. Thus the expenditure on the Olympic Games may be sustainable investment as long as all benefits of it are taken into account, not just the financial cost.

[8]



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

The multiplier effect of Olympics expenditure is estimated at 1.7. This is the injection the hosting country receives into its economy due to ~~mean~~ "generating thousands of new jobs in construction" and generating a "significant amount of tourist expenditure". [2]

- 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]

The Olympic Games is likely to have a positive impact on the government's macroeconomic policy objectives as the Bank of Japan estimates it could boost the Japanese economy by up to \$249 billion. This boost of income is likely to have a positive impact on policy objectives as it would encourage the Japanese government to spend more as they will have more money to spend due to higher rates of taxation of the now wealthier Japanese people. The ~~gov~~ government may choose to spend more on improving road and transport which may improve occupational mobility which would increase employment rates as ~~the~~ people will be able to get to their place of work easier. This is an example of how hosting the Olympic games will have a positive impact on policy objectives.

However "the size of the injection into the



economy from hosting the Olympic Games is generally overstated". This is mainly due to the substitution effect and the opportunity cost of the money spent on the Olympics. Instead of building a new Olympic arena the government could create thousands of new permanent jobs that will improve people's quality of life and disposable income. However, the Olympic Games has a negative impact on policy objectives as the benefit of a new arena is tiny compared to thousands of new jobs. New jobs creating higher disposable income is also likely to increase people's MPC which would further grow an economy and allow firms to grow as they are selling more goods allowing them to employ more people in future, further increasing employment. This is a prime example of a negative impact on the government's policy objectives that the Olympics would have.

What must also be considered is that any additional employment from construction during the Olympic games is "limited" as "workers simply switch from alternative employment towards Olympic employment". So in reality any increased employment is temporary and



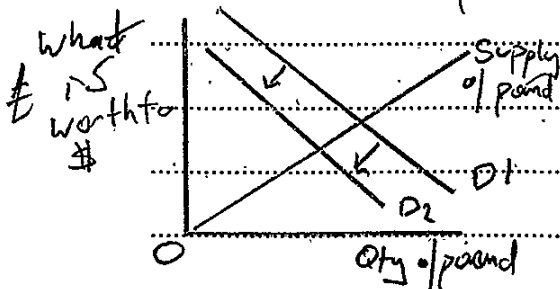
not permanent. Whereas if the government was to create new jobs ^{instead} with the money they would spend on the Olympic Games then these jobs would be permanent which is much more beneficial to an economy than temporary jobs as ~~they are not permanent~~ permanent jobs stimulate continuous economic growth rather than just a short boom while the Olympics is on followed by a rise in unemployment when the Olympics are over. This is another example of how the Olympics has a negative impact on policy objectives.

EVAL

- 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.

When a country hosts the Olympic games their exchange rate will either ~~depreciate~~ appreciate or depreciate. During the British Olympics the ~~exchanging~~ exchange rate depreciated as there was a fall for the British pound.

SEEN



Since the pound depreciates and is worth less the demand for it decreases from D_1 to D_2 . CON
This may be because the Olympics put the UK in a lot of debt so people are less likely to buy the currency of a country in severe debt as it is unstable.

[4]



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

The price of bikes has ~~also~~ been increasing except for in 2012 when the price decreased, however the price began to increase again the following year. Prices of bikes are at the highest in 2015 and there was a price spike in 2009 compared to 2008.

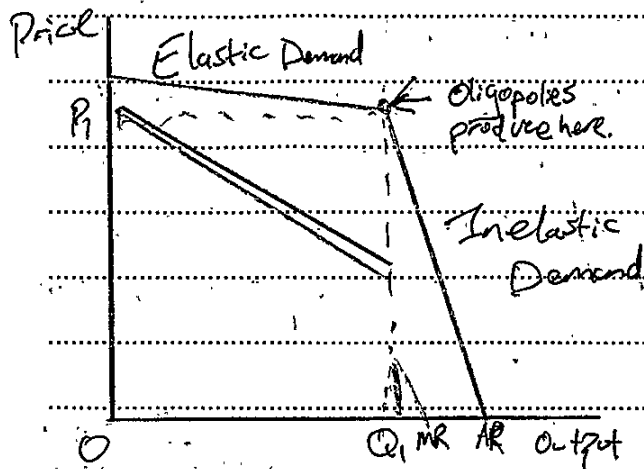
[2]

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

[15]

An oligopoly occurs when there are only a few firms in that market. For the example the bicycle industry is an oligopoly as there are only a few big suppliers of bikes who hold a high market share. ~~There~~ there are only a few firms in an oligopoly as there are high barriers to entry and exit making it very hard for new firms to join the market and drive down prices, thus since there are so few suppliers prices can be quite high. This harms consumer welfare as prices are higher than they need to be allowing oligopolies to ~~make~~ have the potential to make supernormal profit. Oligopolies are however likely to suffer from price rigidity preventing prices from being put too high. This can be explained by the kinked demand curve.





Oligopolies will produce here as due to the kinked demand curve we know that if they raise their prices then demand will be elastic as consumers will shop elsewhere at

another firm as the other firms won't raise their prices. If the oligopoly chooses to reduce their prices demand becomes inelastic as this will cause the other firms in the market to price "undercut" them and this may cause a price war as all the firms try and set their prices lower. Since an oligopoly thus cannot change their prices without significantly decreasing demand, price rigidity occurs which is beneficial for consumer welfare as prices do not rise too high as

EVAL oligopolies cannot afford to without seeing a large fall in demand.

Consumer welfare may be harmed by oligopolies if they choose to collude. Collusion is when ~~the~~ the oligopolies in that market come together and all raise prices at the same time so demand is less affected as the consumers cannot



go to a substitute firm as all prices have been risen rather than just one of the firms. This colluded price rise will increase the oligopolies profit margins, as they will be receiving more for the goods they sell. This will decrease consumer welfare as they are being charged more for a good and are thus having to spend more of their income.

Overall an oligopoly should harm a consumer's welfare as they have the ability to set high prices, however due to price rigidity this may not always be the case.

END OF QUESTION PAPER



ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

34

To conclude, the Olympic games has both a positive and negative impact on policy objectives, in the short run the impacts are more positive. However in the long run when the Olympics are over I believe the negative impacts outweigh the positives.

SEEN



BP



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BP

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Oxford Cambridge and RSA

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