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Centre number		Candidate number	
Surname			
Forename(s)			
Candidate signature			

# A-level **ECONOMICS**

Paper 3 Economic principles and issues

Friday 15 June 2018

Morning

Time allowed: 2 hours

#### **Materials**

For this paper you must have:

- the insert
- a calculator.

#### Instructions

- Answer all questions.
- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- You will need to refer to the insert provided to answer Section B.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this answer book. Cross through any work that you do not want to be marked.

## Information

- The maximum mark for this paper is 80.
- The marks for questions are shown in brackets.
- No deductions will be made for wrong answers.

For Examiner's Use		
Section	Mark	
А		
В		
TOTAL		



# **Section A**

Answer **all** questions in this section.

Only <b>one</b> answer per question is allowed.	
For each answer completely fill in the circle alongside the appropriate answe	r.
CORRECT METHOD WRONG METHODS W • A	
When we me me be a second with the second with	
If you want to change your answer you must cross out your original answer a	is shown.
If you wish to return to an answer previously crossed out, ring the answer you select as shown.	u now wish to
0 1 Which one of the following applies to merit goods?	
A Their marginal private benefit is greater than their marginal social benefit.	0
<b>B</b> They are likely to be provided by the market.	0
C They can only be supplied by the government.	0
<b>D</b> They have the characteristics of non-excludability and non-rivalry.	0
	[1 mark]
Over the course of the year, the government plans to spend an extra £ borrow an extra £40 billion.	
If the government achieves its spending and borrowing targets, by the year the national debt will have increased by	end of the financial
<b>A</b> 4%	0
<b>B</b> 10%	0
<b>C</b> 14%	0
<b>D</b> 40%	0
	[1 mark]



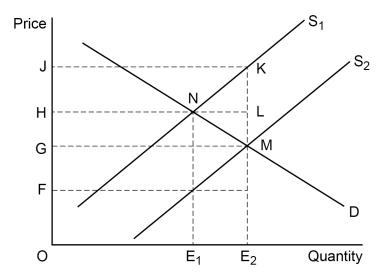
The diagram below shows the production possibility frontier for an economy that 0 3 produces consumer goods and capital goods. The economy is initially operating at point X within its frontier. Consumer goods 0 Capital goods If the economy now moves from point X to point Y on its frontier it will A achieve both productive and allocative efficiency. B benefit from improved economies of scale in the production of both goods. **C** increase its underlying trend rate of growth. **D** obtain more consumer goods and capital goods at zero opportunity cost. [1 mark] 0 4 All other things being equal, an increase in the ratio of capital to labour resulting from an increase in investment is most likely to lead to a A decline in labour productivity. **B** fall in the size of the labour force. **C** negative demand-side shock to the economy. **D** supply-side improvement. 0 [1 mark]



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The diagram below shows the demand curve (D) and two supply curves ( $S_1$  and  $S_2$ ) in the market for renewable energy.



The renewable energy market is initially in equilibrium at a price of OH. The government then introduces a subsidy for renewable energy.

After the introduction of the subsidy, the total amount of money received by the producers from both consumers and the government is

A OGME <sub>2</sub>	0

[1 mark]

0 6 Which one of the following provides a reason for government intervention in a market?

A Firms in an oligopolistic market may limit price competition.

**B** Market failures can only be corrected by using regulations.

C Monopolistically competitive firms earn abnormal profits in the long run.

**D** Public goods are excludable and rival.



quar	ntitati	ve easing (QE). Al	I other things being	ne world have implement equal, which one of the the result of this policy?	e following	Do not v outside box
		Bank liquidity	Bond prices	Long-term interest rates		
	Α	Decrease	Fall	Rise	0	
	В	Increase	Fall	Rise	0	
	С	Decrease	Rise	Fall	0	
	D	Increase	Rise	Fall	0	
					[1 mark]	
Wha		ne value of the cros	ss elasticity of dema	and for good X with resp	pect to good Y?	
В —	0.5				0	
C +	2.0				0	
D -	2.0				0	
					[1 mark]	
		Turr	n over for the next	question		



[1 mark]

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box

1	1

At the initial market equilibrium, the income elasticity of demand for fresh chickens is +1.5, and the price elasticity of supply is +1.0. Then there is a 5% increase in consumers' income.

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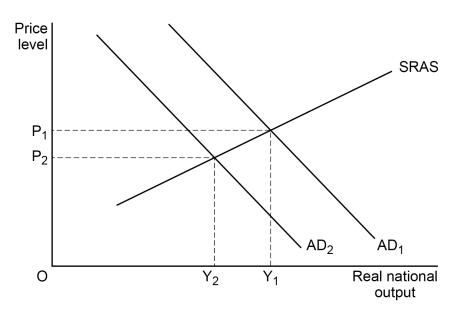
Which one of the following combinations,  $\mathbf{A}$ ,  $\mathbf{B}$ ,  $\mathbf{C}$  or  $\mathbf{D}$ , is most likely to show the changes in the market equilibrium price and quantity?

	Price	Quantity	
A	Higher	Unchanged	0
В	Higher	Higher	0
С	Unchanged	Unchanged	0
D	Lower	Higher	0

[1 mark]

Turn over for the next question

1 2 The diagram below shows two aggregate demand (AD) curves and the short-run aggregate supply (SRAS) curve for an economy.



All other things being equal, the change in real national output from  $Y_1$  to  $Y_2$  is most likely to have been caused by an increase in the

A government's budget deficit.

**B** level of interest rates.

**C** size of the labour force.

**D** volume of exports.

1 3 An economy is in a state of macroeconomic equilibrium. The levels of investment, savings, exports and imports are shown below.

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Injections into and withdrawals from the circular flow of income	
Investment	£200 bn
Savings	£200 bn
Exports	£300 bn
Imports	£400 bn

It can be inferred from the data in the table above that

Α	government expenditure equals taxation.	0
	government experiation equals taxation	i

В	the budget surplus equals the balance of payments deficit.	0
---	--	---

[1 mark]

The table below shows how a firm's total and average product change, in the short run, with different inputs of labour.

Number of workers	Total product	Average product
4	128	32
5	260	52
6	420	70
7	497	71
8	528	66

Diminishing marginal returns to labour set in when the firm employs

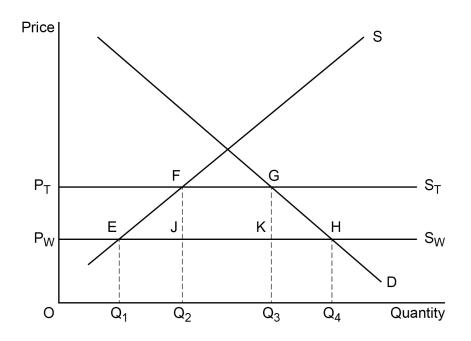
Α	5 workers	0
	_	

[1 mark]



Turn over ▶

The diagram below shows the market demand curve (D), the market supply curve (S) for solar panels produced in a country, and the world market supply curve (S<sub>W</sub>) for solar panels.



To protect domestic producers of solar panels the country introduces a tariff on imports. The imposition of the tariff increases the price of solar panels from the world market price  $(P_W)$  to the higher price  $(P_T)$ .

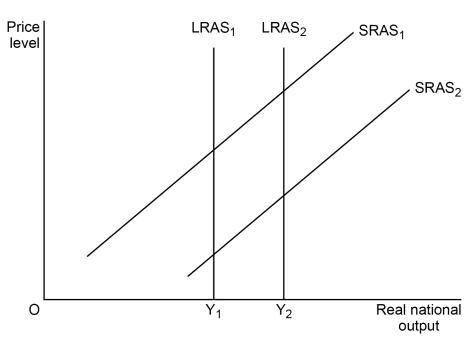
Following the imposition of the tariff, the amount of tariff revenue collected by the government is shown by the area

A EFGH	
<b>B</b> JFGK	0
C P <sub>w</sub> P <sub>T</sub> GK	0

D Q<sub>2</sub>FGQ<sub>3</sub>

1 6		erson eats six biscuits a day to ma cuits.	eximise their total utility from the	consumption of
		e price of biscuits increases by 50% sumption of biscuits.	%, leading to a change in the ind	ividual's daily
		ich one of the following combination individual's total utility and margin		st likely changes in
		Total utility derived from their daily consumption of biscuits	Marginal utility derived from the last biscuit consumed each day	
	A	Decrease	Decrease	0
	В	Increase	Decrease	0
	С	Decrease	Increase	0
	D	Increase	Increase	0
		,		[1 mark]
1 7	A large, unexpected decline in house prices could lead to a systemic crisis in the financial system.			crisis in the financial
	This is most likely to happen if, following the fall in house prices, commercial banks and building societies			
	<b>A</b> ł	nave a low ratio of capital to their to	otal assets.	0
		nave followed Prudential Regulation reduce the amount they lend to high	• • • • •	0
		nave the option to use the Bank of resort.	England as the lender of last	0
	<b>D</b> h	nold a high proportion of liquid ass	ets on their balance sheets.	
				[1 mark]
		Turn over for	the next question	
		Turn over 101	the next question	

1 8 The diagram below shows two long-run aggregate supply (LRAS) and two short-run aggregate supply (SRAS) curves for an economy.



All other things being equal, which one of the following is most likely to explain the movement to the right of both the short-run and long-run aggregate supply curves?

A A large increase in the availability of renewable energy within the economy

0

**B** An increase in employment and a depreciation of the exchange rate

0

**C** An increase in the natural rate of unemployment and the level of money wage rates

0

**D** A supply-side shock to the economy which increases the rate of inflation

0

1 9

The table below shows the average exchange rate and currency valuation estimates for four nations in comparison to the US Dollar in January 2016.

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ioui iie	ations in companson to	Tile 03 Dollar III Jariual	y 2010.
		Average exchange rate to US \$1	Currency valuation estimate
	Australian Dollar	1.46	Undervalued by 24%
	Brazilian Real	4.05	Undervalued by 32%
	Chinese Yuan	6.57	Undervalued by 46%
	Danish Krone	6.84	Undervalued by 12%
	e Australian Dollar has	an be concluded from the appreciated by 24% aga	
<b>B</b> The Dol		en devalued by 32% aga	ainst the US
<b>C</b> The	e Chinese Yuan has de	preciated the most agai	nst the US Dollar.
	<b>D</b> The Danish Krone has the closest purchasing power parity to the US Dollar.		

[1 mark]

0

A firm benefits from significant and persistent economies of scale as it increases output. Which one of the following is the most likely consequence as it grows in size?

The firm's

A ability to set its own prices will increase.

В	long-run average cost curve will become 'U' shaped.	0
С	increasing profitability will attract many new entrants.	0
D	total cost of production will decrease.	0

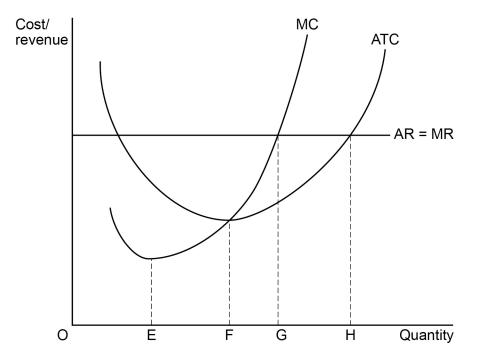
[1 mark]

Turn over for the next question



**2** 1 The diagram below shows a firm operating in perfect competition in the short run.

Which quantity, **OE**, **OF**, **OG** or **OH**, indicates the output where profits are maximised?



A OE		0

[1 mark]

Which one of the following policies is most likely to have an immediate effect in helping to reduce the amount of poverty in the UK?

A An increase in government subsidies for buyers of electric cars

**B** A shift in the burden of taxation from direct to indirect taxes

C Setting a price floor for basic foods

**D** The introduction of a price ceiling for household energy



The table below shows selected components of the UK balance of payments on current account as a percentage of GDP between 2011 and 2014.

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Year	Balance of trade in goods and services	Primary income balance	Secondary income balance	Current account balance
2011	-1.6	1.3	-1.3	-1.6
2012	-2.0	0.1	-1.3	-3.2
2013	-2.0	-1.0	-1.5	-4.5
2014	-1.9	-1.8	-1.4	-5.1

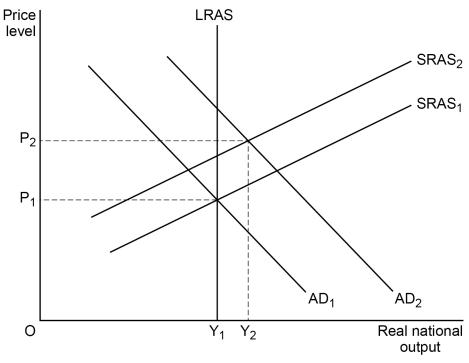
It can be concluded from the data that between 2011 and 2014 the main reason for the rise in the current account deficit as a percentage of GDP was **A** GDP growing faster than the deficit on the current account. 0 **B** the deficit on trade in goods increasing by more than the surplus on trade in services. **C** the deterioration in the primary income balance. **D** the growth in the deficit on the secondary income balance. [1 mark] Globalisation can make some product markets more contestable. Which one of the following characteristics of globalisation is the most likely explanation for such an increase in contestability? A A reduction in protectionism **B** Greater synchronisation of economic cycles between countries C Higher levels of labour migration **D** The growth of employment in emerging market economies 0 [1 mark]

Turn over for the next question



2 4

The diagram below shows two aggregate demand (AD) curves, two short-run aggregate supply (SRAS) curves, and the long-run aggregate supply (LRAS) curve for an economy.



The increase in the price level from  $P_1$  to  $P_2$  raises the rate of inflation above the target rate set by the government. In an attempt to bring inflation back to its target rate, the central bank announces a change in interest rates. Other things being equal, this is most likely to

A create upward pressure on the exchange rate.
--

2 6	Which one of the following is most likely to measure the degree of coroligopolistic industry?	mpetition in an
	A The price elasticity of supply in the industry	0
	<b>B</b> The profitability of the 10 largest firms in the industry	0
	C The three firm concentration ratio	0
	<b>D</b> The value of the Gini coefficient	0
		[1 mark]
2 7	The diagram below shows the demand and supply curves for skilled land unskilled labour ( $D_u$ and $S_u$ ) and the wage differential ( $W_s$ – $W_u$ ) be types of labour.	
	Wage rate	
	W <sub>s</sub>	
	S <sub>u</sub> D <sub>s</sub>	
	$W_u$ $D_u$	
	O Number of worker	<del>-</del> S
	All other things being equal, which one of the following is most likely t in the wage differential?	o cause a decrease
	A A fall in the demand for unskilled workers	0
	<b>B</b> A fall in the size of the labour force	0
	C An increase in the demand for skilled workers	0
	<b>D</b> An increase in the proportion of the labour force with a degree	0
		[1 mark]



2 8	In a labour market dominated by a monopsonist, wages and employm lower than in a competitive labour market. This is because a monopsonist.	
	A employs workers up to the point where the marginal revenue product of labour is equal to the wage rate.	0
	<b>B</b> is a monopoly supplier of labour.	0
	<b>C</b> equates the marginal revenue product of labour with its marginal cost not the wage rate.	0
	<b>D</b> restricts output to raise the price of the product sold.	0
		[1 mark]
2 9	Which one of the following is most likely to cause an increase in the st deficit?	tructural budget
	A fall in income tax receipts in the downturn of the economic cycle	0
	<b>B</b> A rise in government spending on unemployment-related benefits during a recession	0
	<b>C</b> A rise in healthcare expenditure and state pension provision due to an ageing population	0
	<b>D</b> A rise in spending on imports during an economic recovery	0
		[1 mark]



3 0

The table below shows indices for real GDP and consumer prices in an economy over six quarters.

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30

Quarter	Index of real GDP	Index of consumer prices
1	106	100
2	105	105
3	104	111
4	105	116
5	107	120
6	110	123

During these six quarters the economy experienced

	, , ,			
A	deflation and a recession.	0		
В	disinflation when in recession.	0		
С	disinflation when recovering from recession.	0		
D	rising inflation when recovering from recession.	0		
			[1 mark]	

**Turn over Section B** 



## **Section B**

Answer all questions in this section.

## Refer to the insert for Extracts A, B, C, D and E.

**Total for this Investigation: 50 marks** 

# The world energy market

#### **INVESTIGATION**

## Scenario

You are an economist working for OPEC (The Organisation of Petroleum Exporting Countries). You have been asked to produce a review of the world energy market. As part of this investigation, you are to provide answers to three questions.

**Referring to the insert**, study **Extracts A**, **B**, **C** and **D**, then use these extracts and your economic knowledge to help you answer questions 31 and 32. There is also a news report, **Extract E**, which is to be used with the other extracts to help answer question 33.

To what extent, if at all, do the data suggest that the reliance on fossil fuels to product energy is falling? You must use the data in <b>Extract C</b> to support your assessment.  [10 mar



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3 2	Explain how a sustained low world market price for oil would be likely to affect the economic development of a less economically developed oil-producing country sun Nigeria or Venezuela.	e uch as
	Trigeria di Veriezucia.	marks]



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After considering <b>Extract E</b> , and the original evidence in <b>Extracts A</b> , <b>B</b> , <b>C</b> and you recommend to the members of OPEC that they continue to restrict the su to try to raise the world market price of oil? Justify your recommendation.	
to try to raise the world market price of oil? Justify your recommendation.	[25 marks]






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