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## Economics Higher level Paper 3

Thursday 7 November 2019 (	(morning)
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1 hour

#### Instructions to candidates

- Write your session number in the boxes above.
- You are permitted access to a calculator for this paper.
- Do not open this examination paper until instructed to do so.
- · Answer two questions.
- Answers must be written within the answer boxes provided.
- Unless otherwise stated in the question, all numerical answers must be given exactly or correct to two decimal places.
- · You must show all your working.
- The maximum mark for this examination paper is [50 marks].

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18 pages



Answer **two** questions. Each question is worth [25 marks]. Answers must be written within the answer boxes provided.

(a)	State <b>two</b> characteristics of a perfectly competitive market.	[2
(b)	Using a fully labelled diagram, outline the relationship between marginal product ( $MP$ ) and average product ( $AP$ ) of labour.	[4
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The market for corn on the island of Nissos is perfectly competitive. The demand and supply for corn in Nissos are given by the functions

$$Qd = 10 - 0.5P$$
$$Qs = -2 + P$$

where *Qd* is the quantity of corn demanded per month in millions of kilograms (kg), *Qs* is the quantity of corn supplied per month in millions of kg and *P* is the price per kg of corn in dollars (\$).

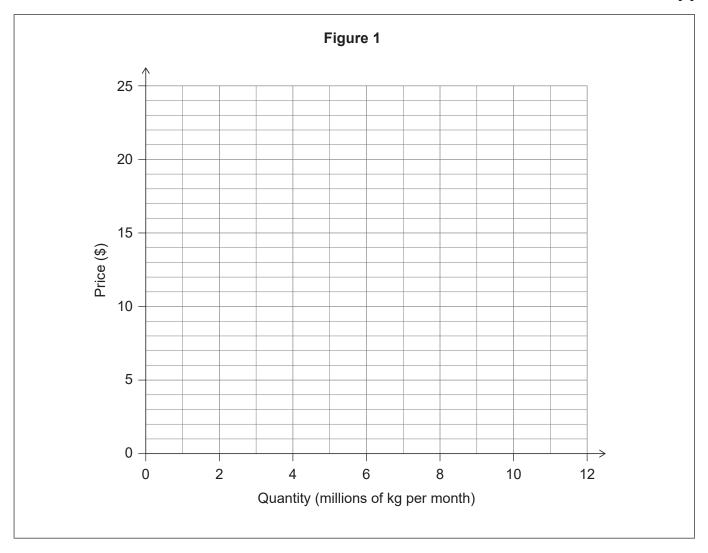
(c)	(i)	Determine the slope of the market supply function for the corn farmers in Nissos.	[1]
	(ii)	Calculate the monthly equilibrium quantity of corn in Nissos.	[2]



Turn over

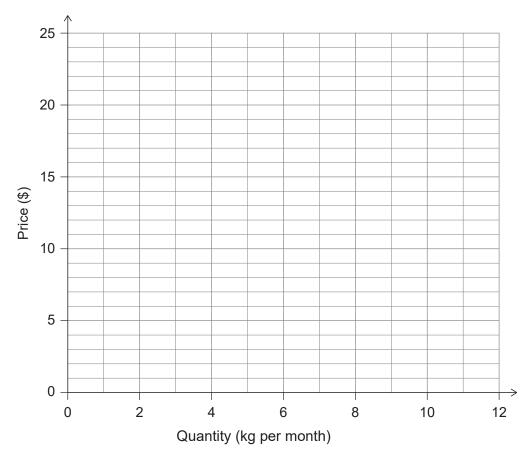
(d) (i) Plot and label on **Figure 1** the market demand curve **and** the market supply curve for corn in Nissos.

[2]





(ii) Draw and label the marginal revenue (*MR*) curve for corn for an individual farmer in Nissos on the grid below.



(iii) Using **Figure 1**, calculate the consumer surplus in Nissos at the market equilibrium.

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[1]

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Advisors to the government of Nissos suggest setting a price floor.

(e)	(i)	Explain <b>one</b> possible advantage <b>and one</b> possible disadvantage of governments setting a price floor in agricultural markets.	[4]

(ii) Draw and label on **Figure 1** a curve that illustrates the price floor in Nissos that leads to a monthly surplus of 3 million kg of corn.

[2]



https://xtremepape.rs/

The monthly corn surplus created must be purchased by the government of Nissos.

(f)	(i)	State <b>one</b> measure that the government of Nissos might take to deal with this corn surplus, following the imposition of the price floor.	[1]
ı	(ii)	Outline why purchasing this surplus implies an opportunity cost for the government of Nissos.	[2]
ı	(iii)	Using <b>Figure 1</b> , determine the size of the decrease in monthly corn consumption following the imposition of the price floor.	[1]
ı	(iv)	Using <b>Figure 1</b> , calculate the change in consumer expenditure on corn in Nissos.	[2]



2. The information in **Table 1** refers to Country A (base year: 2011).

Table 1

Year	2012	2013	2014	2015
Consumer price index (CPI)	99.08	100.55	102.51	107.52
Inflation rate (%)	-0.92	1.48		
Employed (millions)	12.50	12.60	12.85	13.05
Unemployed (millions)	0.99	0.71	0.68	0.61
Population (millions)	20.75	21.48	21.82	22.02
Unemployment rate (%)			5.03	4.47

(a)	(i)	Calculate the inflation rate for 2014 <b>and</b> for 2015. Enter your results in <b>Table 1</b> .	[2]
	(ii)	Calculate the unemployment rate for 2012 <b>and</b> for 2013. Enter your results in <b>Table 1</b> .	[2]



The central bank of Country A aims to achieve price stability, defined as "inflation below but close to 2% annually".

(b)	Explain <b>two</b> reasons why low and stable inflation is desirable.	[4]
(c)	State <b>two</b> functions of a country's central bank.	[2]
(d)	Using the data in <b>Table 1</b> to support your answer, identify <b>two</b> reasons why many economists would consider Country A's economy to be performing poorly in 2012.	[2]

(This question continues on the following page)



(e)	increasing aggregate demand if an economy is in a deep recession.	[1]
(f)	Explain <b>two</b> reasons why fiscal policy may prove effective in lifting an economy out of a deep recession.	[4]
(g)	Outline the meaning of the natural rate of unemployment, with reference to the long-run Phillips curve and types of unemployment.	[2]

(This question continues on the following page)

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The information in **Table 2** refers to Country B, an economically less developed economy.

Table 2

Year	2014	2015
Nominal gross national income (GNI) (\$ billion)	291.53	
Factor income sent abroad (\$ billion)	68.30	75.90
Factor income earned abroad (\$ billion)	8.13	9.49
Nominal gross domestic product (GDP) (\$ billion)		358.97
GDP deflator	100	100.88
Real GDP (\$ billion)		

(h) Using the information in **Table 2** for Country B:

	(i) calculate nominal GDP in 2014. Enter your result in <b>Table 2</b> .	[1]
	(ii) calculate nominal GNI in 2015. Enter your result in <b>Table 2</b> .	[1]
(i)	Using the information in <b>Table 2</b> for Country B, determine real GDP in 2014 <b>and</b> in 2015. Enter your results in <b>Table 2</b> .	[1]

(This question continues on the following page)



(j)	Using the information in <b>Table 2</b> for Country B, calculate the rate of economic growth between 2014 and 2015.	[1]
	data in <b>Table 2</b> suggest that Country B may have attracted significant foreign direct stment (FDI).	
(k)	Outline <b>one</b> possible disadvantage of foreign direct investment (FDI) for economically less developed countries.	[2]



https://xtremepape.rs/

		ntry of Gardia, the currency is the gamma. The exchange rate of the United States \$) to the gamma is US\$ 1 = 6.20 gamma.
(a)	(i)	If a visitor to Gardia from the US buys a towel that costs 23 gamma, calculate the cost in US\$.
	(ii)	More foreign tourists are visiting Gardia. Outline the effect on the value of the gamma. You must give a reason for your answer.
	(iii)	State <b>two</b> factors that could cause Gardia's current account to be in deficit, even though its balance of trade in goods is in surplus.
	(iv)	Determine the size of Gardia's current account surplus/deficit when the sum of the financial and capital accounts is US\$ 2 billion.

(b) Gardia is aiming to increase its economic growth rate. Explain two sources of economic growth for economically less developed countries.	[4]
Gardia received a loan of US\$ 4 million from a foreign bank in 2018 when the exchange rate w US\$ $1 = 5.3$ gamma. It must pay back US\$ $4.2$ million (original amount borrowed plus interest) 2019 when the exchange rate is US\$ $1 = 6.2$ gamma.	
(c) Calculate the additional cost of paying back the loan in gamma in 2019, due to the interest and the change in the exchange rate.	[2]



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Both the gamma and the US\$ are fully convertible currencies, which float freely in foreign exchange markets. The supply and demand for US\$ (in billions) are given by the functions

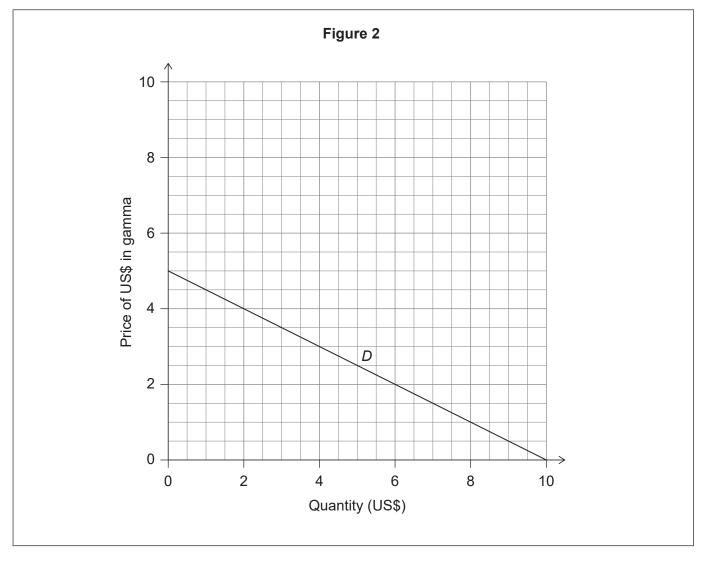
$$Qs = -2 + g$$
$$Qd = 10 - 2g$$

where *g* is the exchange rate of the US\$ in terms of the gamma, *Qs* is the quantity of US\$ supplied per month and *Qd* is the quantity of US\$ demanded per month.

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The demand (D) function is represented in **Figure 2**.



Assume that the monthly supply of US\$ changes to the function

$$Qs = -0.5 + g$$

(e) Plot and label the new supply curve on Figure 2.

[2]

(f) (i) Using **Figure 2**, calculate how many US\$ are needed to buy one gamma at the new exchange rate.

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(ii) State <b>two</b> reasons that could have caused an increase in the supply of US\$. [2]
Gardia's investment (in plant and equipment) increased by 11 million gamma in the last month. In the same month, its government spending decreased by 8 million gamma. It has been estimated that the marginal propensity to consume (MPC) on domestic goods and services in Gardia is 0.75.
(g) Calculate the maximum possible increase in real gross domestic product (GDP) in Gardia that could result from the changes in investment and government spending. [2]

(This question continues on the following page)



[4]

### (Question 3 continued)

(h) Using a fully labelled monetarist/new classical diagram, explain why, while there may be short-term fluctuations in output, the economy will always return to the full employment level of output in the long run.



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