

Markscheme

November 2019

Economics

Higher level

Paper 3

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Notes for examiners:

1. Whenever relevant, carry over marks must be awarded. If a candidate makes an error in calculation, but then uses the incorrect figure appropriately and accurately in later question parts, then the candidate may be fully rewarded. This is the “own-figure rule” and you should put OFR on the script where you are rewarding this.
2. Alternative approaches may be taken in responses to the [4] questions that use A02 command terms. If this is the case and the alternative approaches are valid, then full credit should be given.

1. (a) State **two** characteristics of a perfectly competitive market. **[2]**

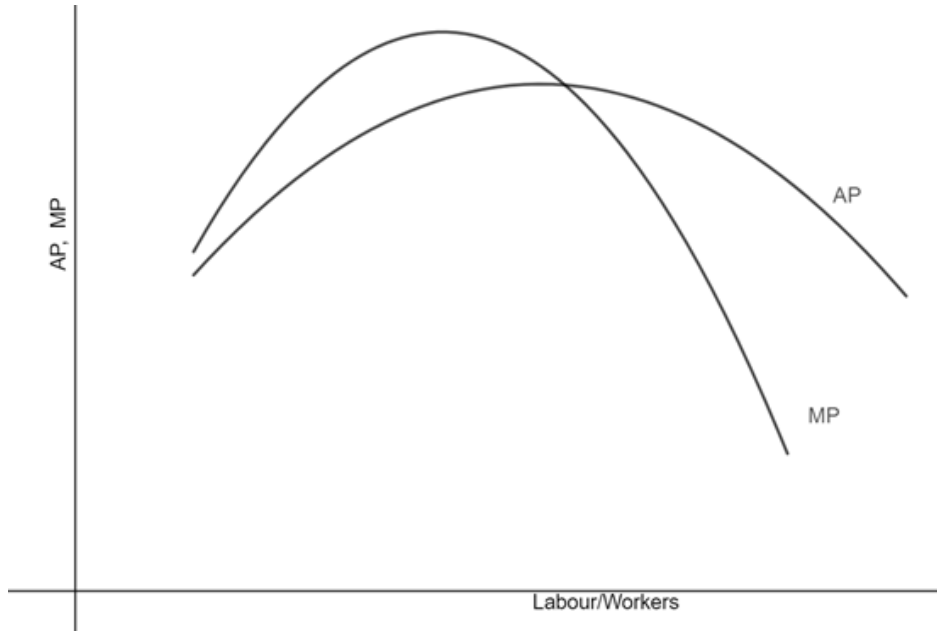
Award [1] for each valid characteristic.

Characteristics may include:

- many small firms
- homogeneous product
- no barriers to entry (and exit)
- perfect information
- perfect factor mobility
- firms are price takers.

- (b) Using a fully labelled diagram, outline the relationship between marginal product (*MP*) and average product (*AP*) of labour. **[4]**

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>The written response is limited.</i>	1–2
	For a fully labelled diagram showing an MP curve that peaks earlier and higher and that intersects AP at its maximum. OR For outlining that MP will fall (due to diminishing returns) [1] and will intersect AP at its maximum, because if $MP > AP$, AP will rise, and if $MP < AP$, AP will fall [1].	
2	<i>The written response is accurate.</i>	3–4
	For a fully labelled diagram showing an MP curve that peaks earlier and higher and which intersects AP at its maximum. AND For outlining that MP will fall (due to diminishing returns) [1] and will intersect AP at its maximum, because if $MP > AP$, AP will rise, and if $MP < AP$, AP will fall [1].	



The vertical axis may be labelled Marginal/Average Product, Product, Output, (or abbreviations of these). The horizontal axis may be labelled (Quantity of) labour, workers, variable factor, input.

- (c) (i) Determine the slope of the market supply function for the corn farmers in Nissos. [1]

(+) 1 is sufficient for [1].

- (ii) Calculate the monthly equilibrium quantity of corn in Nissos. [2]

$$10 - 0.5P = P - 2$$
$$12 = 1.5P$$
$$P = 8$$
$$Q = -2 + 8 = 6$$

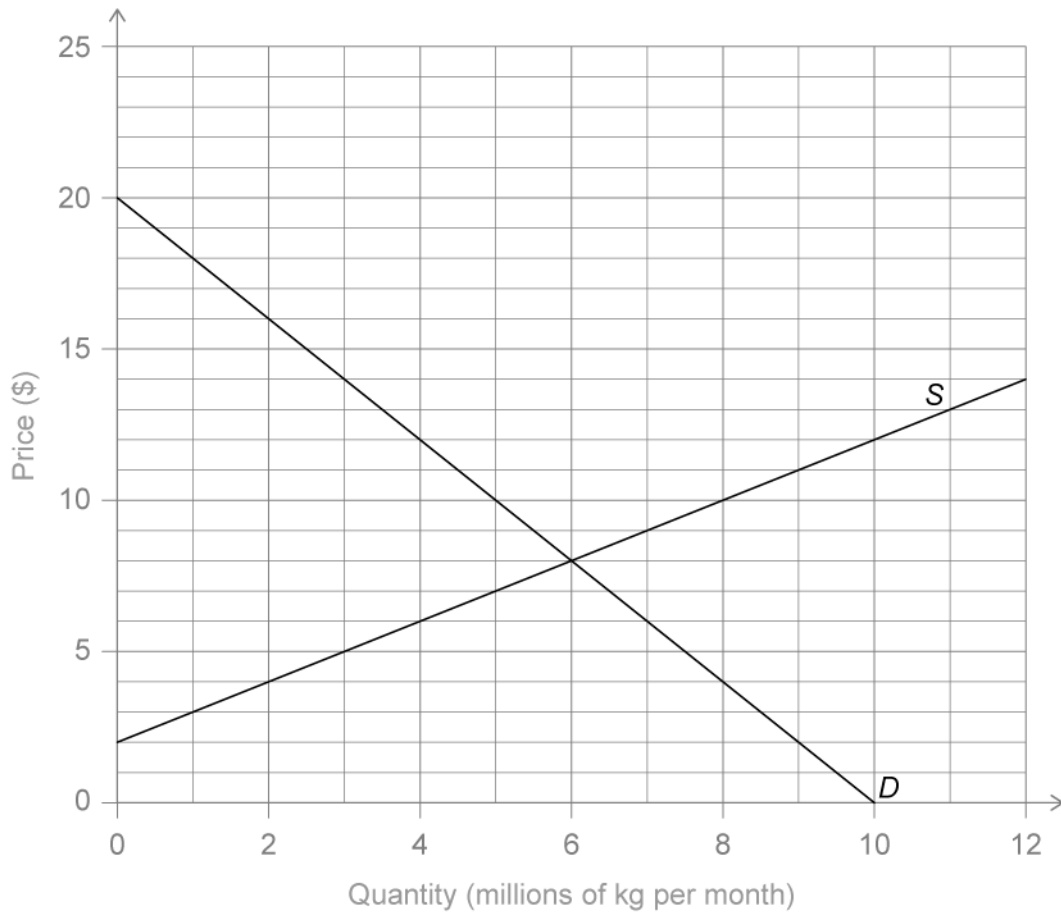
Any valid working is sufficient for [1].

$$Q = 6 \text{ million kg}$$

An answer of 6 million kg or 6 million or 6 without working is sufficient for [1].

For full marks to be awarded the response must provide some valid working and include correct units.

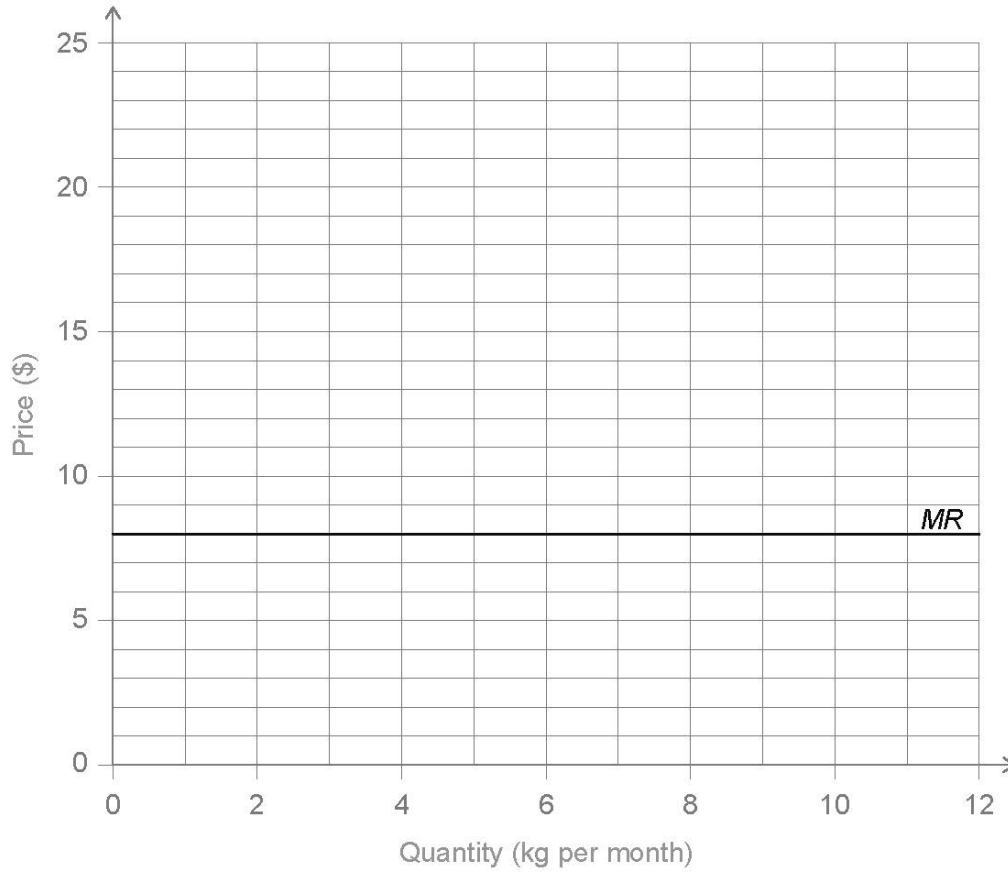
- (d) (i) Plot and label in Figure 1 the market demand curve and the market supply curve for corn in Nissos. [2]



Level		Marks
0	The work does not meet a standard described by the descriptors below.	0
1	The response is limited.	1
	For an accurate, labelled demand curve OR supply curve OR for accurate demand and supply curves with incomplete labelling.	
2	<i>The response is accurate.</i>	2
	For an accurate, labelled demand curve AND supply curve.	

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

[1]



Horizontal line at \$8.00 with MR label on Figure 1 is sufficient for [1].

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

[1]

$$\frac{1}{2} \times 6 (20 - 8)$$

No workings are required.

\$36 million is sufficient for [1].

OFR applies.

- (e) (i) Explain **one** possible advantage **and one** possible disadvantage of governments setting a price floor in agricultural markets. [4]

*For providing a limited explanation of **one** advantage **or one** disadvantage, award a maximum of [1].*

*For an accurate explanation of **one** advantage **or one** disadvantage **or** a limited explanation of both, award a maximum of [2].*

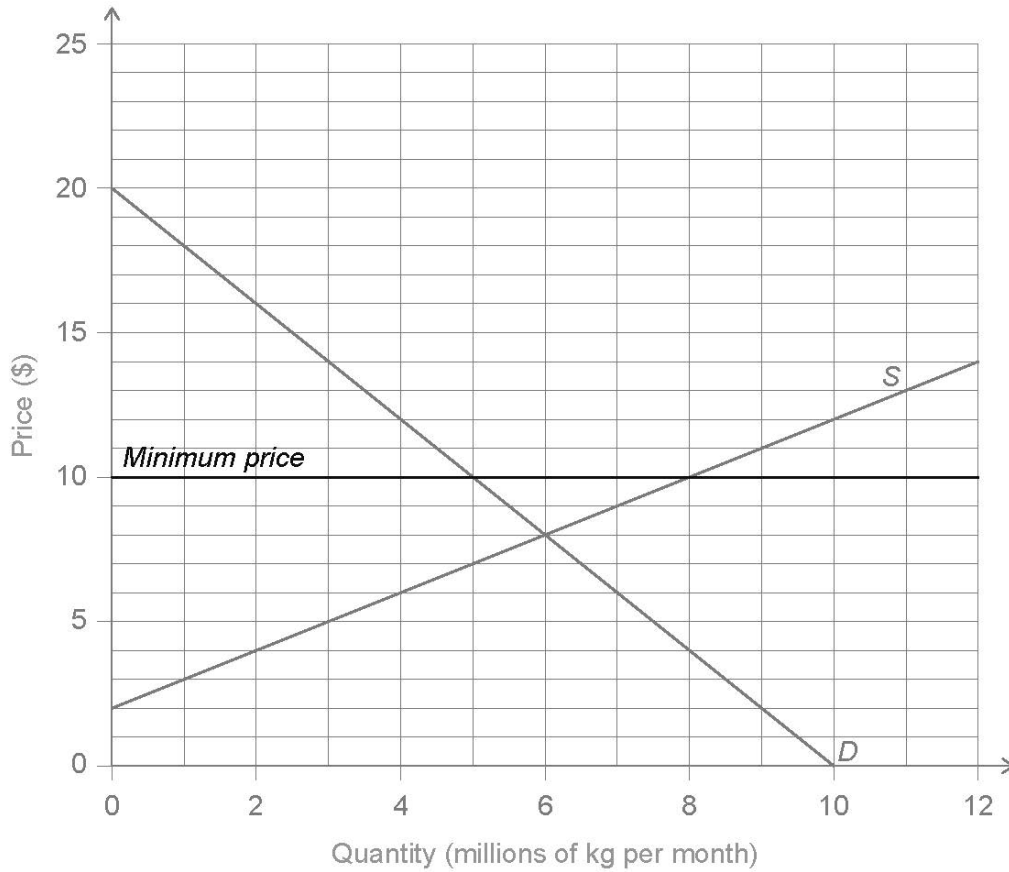
*For providing an accurate explanation of **one** advantage **or one** disadvantage **and** a limited explanation of **one** disadvantage **or one** advantage, award a maximum of [3].*

*For providing **two** accurate explanations, award a maximum of [4].*

Level		Marks
0	The work does not meet a standard described by the descriptors below.	0
1	The written response is limited.	1–2
	<p><i>Advantages may include:</i></p> <ul style="list-style-type: none"> • supporting farmers’ incomes/increasing producer surplus • decreasing income inequality • reducing rural-urban migration • decreasing price instability in agricultural markets. <p><i>Disadvantages may include:</i></p> <ul style="list-style-type: none"> • higher prices for consumers • overproduction of farm products (surplus) / misallocation of resources / allocative inefficiency • increased government expenditure • opportunity cost of financing the scheme <p><i>Any other valid response.</i></p>	
2	The written response is accurate.	3–4
	<p><i>Accurate explanations of advantages may include:</i></p> <ul style="list-style-type: none"> • supporting farmers’ incomes, because farmers may have low and/or unstable incomes • decreasing income inequality, because rural areas have lower incomes than urban areas • reducing rural-urban migration, because urban areas have high unemployment and lower living standards due to population density • decreasing price instability in agricultural markets, which may occur because of weather and other random factors. <p><i>Accurate explanations of disadvantages may include:</i></p> <ul style="list-style-type: none"> • consumers will pay higher prices for food, which is a necessity • overproduction of farm products / misallocation of resources, because too much land is used for agriculture • increased government expenditure, which requires higher taxes or (increased) government borrowing • opportunity cost of financing the scheme, because spending on other needs will have to be foregone. <p><i>Any other valid and explained response.</i></p>	

- (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]



Award [1] for a horizontal line above the equilibrium price.

Award [1] for the line being drawn at \$10.

If the line is not labelled a maximum of [1] may be awarded.

OFR applies.

- (f) (i) State **one** measure that the government of Nissos might take to deal with this corn surplus, following the imposition of the price floor. [1]

Award [1] for one accurate possible measure.

Measures may include:

- destroying the surplus
- storing for future use (possible future drought)
- exporting abroad at a lower price
- overseas food aid
- purchasing the surplus
- providing foodbanks or low-income families with (rationed) surplus
- *any other valid measure.*

- (ii) Outline why purchasing this surplus implies an opportunity cost for the government of Nissos. [2]

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>The response is limited.</i>	1
	For outlining that spending means sacrificing other alternatives.,	
2	<i>The response is accurate.</i>	2
	For outlining that the funds used on purchasing the surplus could have been used to finance education, health services <i>etc</i> , or that taxes would have to be higher or (the increased) borrowing penalizes (or burdens) future generations.	

- (iii) Using **Figure 1**, determine the size of the decrease in monthly corn consumption following the imposition of the price floor. [1]

1 million kg is sufficient for [1].

No workings are required.

OFR applies.

- (iv) Using **Figure 1**, calculate the change in consumer expenditure on corn in Nissos. [2]

$$8 \times 6 = \$48 \text{ million}$$

$$10 \times 5 = \$50 \text{ million}$$

Any valid working is sufficient for [1].

Change = \$2 million **OR** an increase of \$2 million.

An answer of 2 or 2 million or \$2 million without working is sufficient for [1].

OFR applies.

For full marks to be awarded the response must provide valid working and include correct units.

2. (a) (i) Calculate the inflation rate for 2014 **and** for 2015. Enter your results in **Table 1**. [2]

2014: 1.95

2015: 4.89

Award [1] for each correct answer.

No workings are required.

N.B. Responses written either in **Table 1** or in the answer boxes provided should be fully rewarded

- (ii) Calculate the unemployment rate for 2012 **and** for 2013. Enter your results in **Table 1**. [2]

2012: 7.34

2013: 5.33

Award [1] for each correct answer.

No workings are required.

N.B. Responses written either in **Table 1** or in the answer boxes provided should be fully rewarded.

(b) Explain **two** reasons why low and stable inflation is desirable. [4]

*For a limited explanation of **one** reason, award a maximum of [1].*

*For an accurate explanation of **one** reason **or** a limited explanation of **two** reasons, award a maximum of [2].*

*For providing an accurate explanation of **one** reason **and** a limited explanation of a second reason, award a maximum of [3].*

*For providing **two** accurate reasons, award a maximum of [4].*

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>The written response is limited.</i>	1–2
	<p><i>Reasons may include:</i></p> <ul style="list-style-type: none"> • higher level of investment spending is encouraged • export competitiveness is maintained • fixed money wage earners/recipients of transfer payments do not suffer a decrease in their purchasing power • efficiency of price mechanism is maintained • income is not redistributed from lenders to borrowers • income is not redistributed from consumers to other groups • to avoid currency depreciation. <p><i>Reasons why deflation is also undesirable are also valid, such as:</i></p> <ul style="list-style-type: none"> • deflationary spiral • avoidance of a deflationary gap. <p><i>Any other valid reason.</i></p>	
2	<i>The written response is accurate.</i>	3–4
	<p><i>Accurate explanations may include:</i></p> <ul style="list-style-type: none"> • higher level of investment spending is encouraged as companies can predict future revenues and costs with less uncertainty/more confidence • export competitiveness is maintained so trade deficits do not widen creating BOP problems / so export-driven growth is maintained • money wage earners and recipients of transfer payments do not suffer a decrease in their purchasing power as they usually cannot negotiate higher wages/payments (or, so income inequality does not widen) • efficiency of price mechanism is maintained permitting efficient allocation of resources • income is not redistributed from lenders to borrowers, so that lenders (banks) do not charge unnecessarily high interest rates / so that borrowing is not excessively encouraged • income is not redistributed from consumers to other groups such as shareholders/producers, who would have benefited from higher profits (or, so income inequality does not widen) • to avoid currency depreciation, which would lead to higher import prices and production costs. <p><i>Reasons why deflation is also undesirable are also valid, such as:</i></p>	

	<ul style="list-style-type: none"> • deflation may lead to a deflationary spiral, in which prices and profits keep falling • if prices are not maintained, a deflationary gap may occur with a decrease in economic activity and/or higher unemployment and/or bankruptcies. <p><i>Any other valid and explained reason.</i></p>	
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(c) State **two** functions of a country's central bank. [2]

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	For stating any one of the following responsibilities: <ul style="list-style-type: none"> • regulator of commercial banks • banker to the government/managing government finances • conducting monetary policy/control of interest rates/control of money supply/maintenance of price stability • conducting exchange-rate policy • holder of foreign exchange reserves • issuer of notes and coins • promoting full employment • banker to the commercial banks • lender of last resort. 	1
2	For stating any two of the following responsibilities: <ul style="list-style-type: none"> • regulator of commercial banks • banker to the government/managing government finances • conducting monetary policy/control of interest rates/control of money supply/ maintenance of price stability • conducting exchange-rate policy • holder of foreign exchange reserves • issuer of notes and coins • promoting full employment • banker to the commercial banks • lender of last resort. 	2

- (d) Using the data in **Table 1** to support your answer, identify **two** reasons why many economists would consider Country A’s economy to be performing poorly in 2012. **[2]**

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>The response is limited.</i>	1
	Either high unemployment OR deflation is identified with supporting evidence OR both are identified but with no reference to the data.	
2	<i>The response is accurate.</i>	2
	Both high unemployment AND deflation are identified accurately, with supporting evidence (eg numerical data or “negative inflation”) from Table 1 for at least one of the reasons.	

NB A response which only states the correct data without specifying that there is high unemployment and deflation may be awarded a maximum of **[1]**.

- (e) State **one** reason why monetary policy is considered to have limited effectiveness in increasing aggregate demand if an economy is in a deep recession. **[1]**

Answers **may** include:

- Interest rates are already close to zero.
- Spending depends on confidence/indebtedness as well as interest rates.
- Money demand may be highly sensitive (elastic/flat) with respect to interest rates.
- Investment/consumption may not be sensitive to changes in interest rates.

Any other valid reason.

Award **[1]** for **one** possible reason.

- (f) Explain **two** reasons why fiscal policy may prove effective in lifting an economy out of a deep recession. **[4]**

*For a limited explanation of **one** reason, award a maximum of **[1]**.*

*For an accurate explanation of **one** reason **or** a limited explanation of **two** reasons, award a maximum of **[2]**.*

*For providing an accurate explanation of **one** reason **and** a limited explanation of a second reason, award a maximum of **[3]**.*

*For providing **two** accurate reasons, award a maximum of **[4]**.*

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>The written response is limited.</i>	1–2
	<p><i>Reasons may include:</i></p> <ul style="list-style-type: none"> • An increase in Government spending is direct or can target specific sectors. • Spending by the government will often increase confidence levels. • There may be a multiplier effect. • Lowering income taxes increases disposable incomes. <p><i>Any other valid reason.</i></p>	
2	<i>The written response is accurate.</i>	3–4
	<p><i>Accurate explanations may include:</i></p> <ul style="list-style-type: none"> • An increase in Government spending (G) is direct since G is a component of aggregate demand or since infrastructure or subsidies can be targeted towards key areas. • Spending by the government will often directly increase employment (or decrease unemployment) and thus confidence levels. • There may be a multiplier effect as a rise in income leads to a rise in consumption. • Lowering income taxes increases disposable incomes and thus may positively affect spending as well as confidence levels. <p><i>Any other valid and explained reason.</i></p>	

- (g) Outline the meaning of the natural rate of unemployment, with reference to the long-run Phillips curve and types of unemployment. [2]

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>Vague outline.</i>	1
	For the idea that it is the unemployment level at which the long-run Phillips curve is vertical OR That it consists of structural, (seasonal) and frictional unemployment.	
2	<i>Accurate outline.</i>	2
	For the idea that it is the unemployment level at which the long-run Phillips curve is vertical AND That it consists of structural, (seasonal) and frictional unemployment.	

NB A response that refers to the types of unemployment that are **not cyclical** may be rewarded.

NB Responses for (h) and (i) written either in **Table 2** or in the answer boxes provided should be fully rewarded.

- (h) Using the information in **Table 2** for Country B:
- (i) calculate nominal GDP in 2014. Enter your result in **Table 2**. [1]
- 351.70 is sufficient for [1].*
- No workings are required.*
- (ii) calculate nominal GNI in 2015. Enter your result in **Table 2**. [1]
- 292.56 is sufficient for [1].*
- No workings are required.*
- (i) Using the information in **Table 2** for Country B, determine real GDP in 2014 **and** in 2015. Enter your results in **Table 2**. [1]
- 2014: 351.70
2015: 355.84
- Award [1] for **both** correct figures.*
- No workings are required.*
- OFR applies for 2014 figure.*

- (j) Using the information in **Table 2** for Country B, calculate the rate of economic growth between 2014 and 2015. [1]

$$\frac{355.84 - 351.7}{351.7} \times 100 = 1.1771$$

No workings are required.

1.18% or 1.18 is sufficient for [1].

OFR applies.

- (k) Outline **one** possible disadvantage of foreign direct investment (FDI) for economically less developed countries. [2]

*Award [1] for stating **one** possible disadvantage **without** any outline.*

*Award [2] for stating **one** possible disadvantage **with** a brief outline.*

*Disadvantages **may** include:*

- Repatriation of profits and royalties may lead to balance of payments problems.
- Importation of intermediate goods and capital goods may lead to balance of payments problems.
- Domestic firms may be hurt as they may be small and not able to compete.
- Technology employed may be inappropriate so that employment decreases.
- Income inequality may widen between rural and urban areas where most MNCs locate.
- The tax contributions may be less than expected because of tax concessions and/or transfer pricing.
- MNCs may use their economic power to adversely influence markets/government policies.
- Production by MNCs may result in negative externalities/exploitation of resources.

Any other valid disadvantage outlined.

3. (a) (i) If a visitor to Gardia from the US buys a towel that costs 23 gamma, calculate the cost in US\$. [1]

$$\frac{23}{6.2} = 3.71$$

No workings are required.

US\$3.71 or 3.71 is sufficient for [1].

- (ii) More foreign tourists are visiting Gardia. Outline the effect on the value of the gamma. You must give a reason for your answer. [2]

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>The response is limited.</i>	1
	For a response that the gamma will appreciate OR the value of the gamma rises.	
2	<i>The response is accurate.</i>	2
	For a response that the gamma will appreciate OR the value of the gamma rises AND because the demand for gamma will have increased.	

- (iii) State **two** factors that could cause Gardia’s current account to be in deficit, even though its balance of trade in goods is in surplus. [2]

Possible factors may include:

- Gardia could have a (greater) deficit on its services account, eg in transport or insurance or tourism.
- Gardia could have a (greater) deficit on its income account, eg in profits, interest or dividends on its overseas assets or in salaries paid from overseas (remittances might be included here).
- Gardia could have a (greater) deficit on its current transfers/transfer payments, eg in overseas aid or income remittances or pensions paid overseas.

NB *Using examples is sufficient (though not required) but for [2] the examples must be from different accounts (bullet points).*

NB *A response that provides at least one account but does not refer to it having a (greater) deficit should be awarded [1].*

Award [1] for each valid factor.

- (iv) Determine the size of Gardia’s current account surplus/deficit when the sum of the financial and capital accounts is US\$2 billion. [1]

A deficit of US\$2 billion or – \$2billion is sufficient for [1].

- (b) Gardia is aiming to increase its economic growth rate. Explain **two** sources of economic growth for economically less developed countries. **[4]**

*For a limited explanation of **one** source, award a maximum of [1].*

*For an accurate explanation of **one** source **or** a limited explanation of **two** sources, award a maximum of [2].*

*For providing an accurate explanation of **one** source **and** a limited explanation of a second source, award a maximum of [3].*

*For providing **two** accurate sources, award a maximum of [4].*

Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>The written response is limited.</i>	1–2
	<p><i>Sources may include:</i></p> <ul style="list-style-type: none"> • increases in human capital • appropriate technologies • innovative technologies from overseas • institutional changes • foreign direct investment • an expansionary fiscal policy • export promotion • depreciation of exchange rate. <p><i>Any other valid response that leads to economic growth.</i></p>	
2	<i>The written response is accurate.</i>	3–4
	<p><i>Accurate explanations may include:</i></p> <ul style="list-style-type: none"> • increases in quantities of human capital, eg through education in skills • development and use of appropriate technologies, eg intermediate technologies that do not require high fixed costs, but which increase productivity • adopting (implementing) innovative technologies from overseas with market potential, eg manufacturing electric cars • institutional changes, eg improving the efficiency of the legal system or establishing and protecting property rights • inviting foreign direct investment, eg to process local materials so that there is more value added domestically or to provide appropriate technologies • an expansionary fiscal policy that will increase AD through raising G or lowering income taxes • export promotion that will increase AD or that furthers vertical integration in the export sector • depreciation of exchange rate that will lead to exports becoming more competitive/imports less competitive; so AD increases. <p><i>Any other valid and explained response that leads to economic growth.</i></p>	

- (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]

$$2018: 4 \times 5.3 = 21.2$$

$$2019: 4.2 \times 6.2 = 26.04$$

Any valid working is sufficient for [1].

$$26.04 - 21.2$$

$$= 4.84 \text{ million gamma or } 4.84 \text{ million}$$

An answer of 4.84 million or 4.84 or 4.84 million gamma without workings is sufficient for [1].

- (d) Calculate the equilibrium exchange rate for the US\$ in terms of the gamma. [2]

$$g - 2 = 10 - 2g$$

$$3g = 12$$

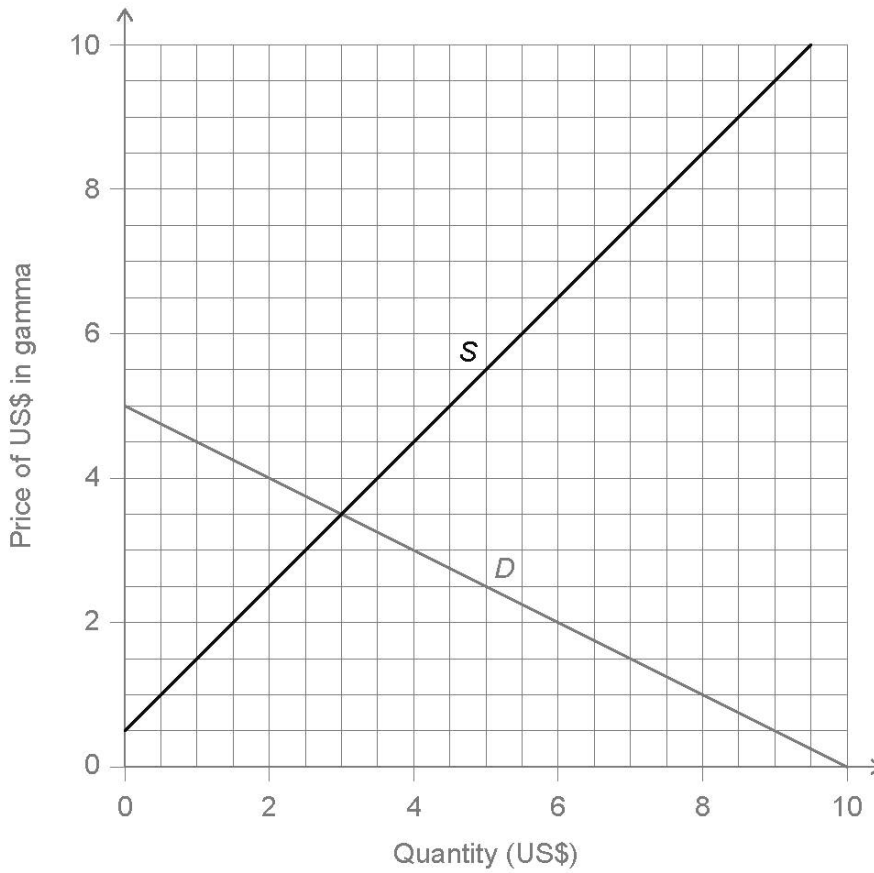
Any valid working is sufficient for [1].

$$g = 4 \quad \text{or } \$1 = 4 \text{ gamma}$$

An answer of 4g or 4 without workings is sufficient for [1].

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

[2]



Award [1] for a correctly plotted supply curve.

Award [1] for a correctly labelled supply curve.

NB If the supply curve is incorrectly plotted with a label, then no marks should be awarded.

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

[1]

$$\text{US\$ } \frac{1}{3.5} = \text{US\$ } 0.29 \text{ or } 0.29 \text{ or } 29 \text{ cents}$$

Either of the above equivalent answers is sufficient for [1].

OFR applies.

For OFR divide 1 by the equilibrium value that appears on the plot or whatever is indicated on the vertical axis that is given by the intersection of demand and supply.

(ii) State **two** reasons that could have caused an increase in the supply of US\$. **[2]**

*Reasons **may** include:*

- US increasing its imports **OR** Gardia increasing its exports of goods and services to the US
- Gardia's interest rates rising **OR** US rates falling
- Gardia's inflation rate falling **OR** the inflation rate in the US rising
- US incomes rising at a faster rate than incomes in Gardia
- more investment (financial and/or direct) flowing from the US to Gardia
- US government/central bank using dollars to buy gamma/foreign currencies
- speculative selling of dollars (because of expectation of depreciation)
- *any other valid reason.*

NB Acceptable answers do not require an explicit reference to Gardia.

Award **[1]** for each valid reason.

(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]**

$$\frac{1}{1-0.75} \times (11 - 8) = 4 \times 3$$

*Any valid working (eg the multiplier being calculated correctly) is sufficient for **[1]**.*

= 12 million gamma

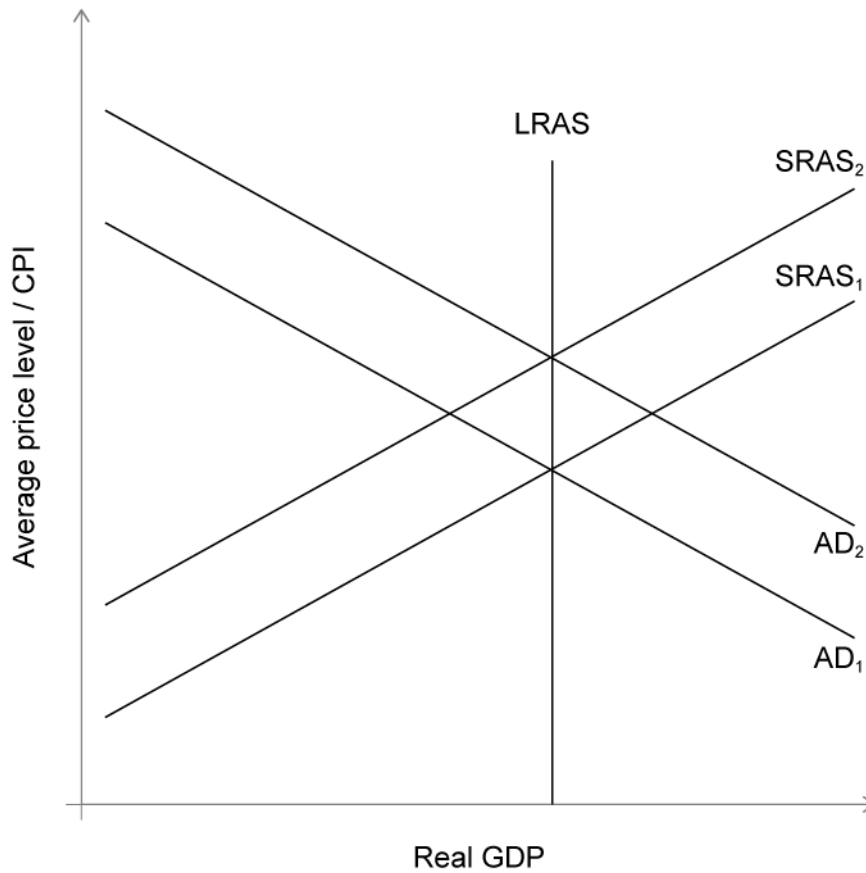
*An answer of 12 million gamma or 12 without workings is sufficient for **[1]**.*

*If investment is ignored and so the answer provided is $11 \times 4 = 44$ then **[1]** may be awarded.*

For full marks to be awarded the response must provide valid working and include correct units.

- (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.

[4]



Level		Marks
0	<i>The work does not meet a standard described by the descriptors below.</i>	0
1	<i>The written response is limited.</i>	1–2
	For a fully labelled diagram showing AD shifting right and SRAS shifting left, with a new LR equilibrium at the intersection of LRAS and the new AD. OR For explaining that a higher price level (and lower unemployment) will lead to higher wages/input prices, so SRAS/production falls (to the left). The new long-run equilibrium is where the new AD intersects LRAS at a higher price level with no impact on real GDP (the full-employment level of output).	
2	<i>The written response is accurate.</i>	3–4
	For a fully labelled diagram showing AD shifting right and SRAS shifting left, with a new LR equilibrium at the intersection of LRAS and the new AD. AND For explaining that a higher price level (and lower unemployment) will lead to higher wages/input prices, so SRAS/production falls (to the left). The new long-run equilibrium is where the new AD intersects LRAS at a higher price level with no impact on real GDP (the full-employment level of output).	

NB An alternative response which illustrates and explains how the economy would adjust to a **decrease** in aggregate demand should also be fully rewarded.