

Exam Course

LECTURER:

Shannon Perry

MODULE:

ECS 2602

DATE:

2014

Oct 2013 Exam solutions

Question 1.

Distinguish between financial investment and real investment (2)

Financial investment is investment in shares and other financial instruments with the hope of earning a return normally related to the interest rate, whereas real investment is spending on additions to the capital stock (machinery, buildings, inventories etc).

Question 2

Briefly describe the impact an increase in the interest rate has on the demand for money curve. (2)

An increase in the interest rate will cause a decrease in the demand for money. This is reflected by an upward movement along the demand for money curve.

Question 3

Briefly explain why the multiplier is smaller for an open economy than a closed economy. (2)

Multiplier is made up of the mpc (marginal propensity to consume) and the t (tax rate) in a closed economy. In an open economy the multiplier is made up of the mpc, t and the mpl (marginal propensity to import). Note that imports is a withdrawal in the circular flow model, therefore any money that is spent on imports, leaves the economy and thus will not be multiplied by the multiplier. Thus the effect of the multiplier is smaller in an open economy than in a closed economy

Question 4

Name two factors that will cause a decrease in the real exchange rate. (2) The real exchange rate will decrease when:

- · Foreign prices increase (assuming the domestic prices and nominal exchange rate remain constant)
- Domestic prices decrease(assuming foreign prices and the nominal exchange rate remain constant)

Question 5

Use the following goods market model to explain how government spending can be used to ensure full employment. Comment on the size of government spending needed to reach full employment.(6)

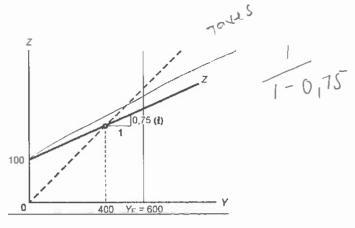












Explanations and calculations (5)

This can be done by an expansionary fiscal policy. This means that government spending must increase.

We need to calculate the multiplier 1st

note that the mpc =3/4 or 0.75

 $\bullet \quad \propto = \frac{1}{1 - 0.75} \quad = \quad 4 \quad \checkmark$

Then we must calculate amount government spending must increase by:

• Δ autononous spending = $\frac{\Delta Y}{\alpha}$ (Yf - Y Θ)

• \triangle autononous spending = $\frac{600-400}{4}$ = $\frac{6}{1}$ 50

From the above calculation we can deduce that

- · If government spending were to increase by 50, through the multiplier (4) effect, will lead to an increase in the aggregate demand for goods and services and eventually the level of output (production, income and spending) by $(50 \times 4 = 200)$.
- Name one other fiscal policy instrument to ensure full employment. Indicate the direction of change. (1)

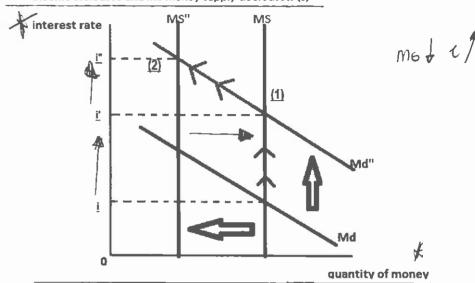
Another fiscal policy instrument that could yield similar results would be A reduction in tax rate. This will be indicated by a swivel of the zz curve upwards.

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Question 6

Use the financial market model to explain what happens to the interest rate if income increases and the money supply decreases, (6)



According to the diagram.

 An increase in income will lead to an increase in the demand for money and subsequently leading to an increase in the level of interest rates.(from i to i') (This is reflected by an upward (rightward) shift of Md to Md" and a

Taking us to point (1)

movement along the MS curve)

- · The decrease in Money supply will reduce the purchasing power (real money supply) and inevitably increasing the level of interest rates (further from I' to I'') (This is reflected by a leftward shift of the money supply from MS to
- It must be noted that real money supply will also decrease.

Overall effect on the interest rate

The interest rate level will increase twice.



Question 7

7.1 Identify the factors that impact on the targeted nominal wage in the wage setting relationship. Clearly indicate the relationship between the factors and the targeted nominal wage. (4)

These factors influence the bargaining position of workers and therefore the targeted nominal wage demands:

- (+) Expected price level (P*) if workers expect price of goods they
 buy to double, they will ask for a doubling of their nominal wage to
 protect their purchasing power.
- (-) Unemployment rate (u) higher unemployment rate lowers workers
 bargaining power (now easily replaced), forcing them to accept a
 lower wage
- (+) Institutional factors (z):
 - unemployment insurance or benefits to workers who lose their jobs (at a given unemployment rate, higher unemployment benefits increase the wages)
 - minimum wages (an increase in minimum wages will increase naminal wages at a given unemployment rate)
 - labour laws and regulations that protect employment (more protection will increase the bargaining position of workers and there will be a rise in wages at a given unemployment rate)
 collective bargaining
- 7.2 Briefly explain why it is not possible for labour to increase the price determined real wage through nominal wage bargaining. (3)

The wage-setting relationship does not tell us what the actual real wage will be. Workers can try to achieve a desired or targeted real wage by bargaining for a nominal wage, but whether the desired or targeted real wage is achieved will depend on what happens to the price level.

And the price level is determined by the mark-up used by firms.

This implies that whatever the level of nominal wages, the price of the products produced will always be a certain percentage (as determined by the mark-up) higher than the wages paid to workers.

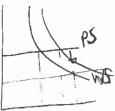
The implication of this particular model of the labour market is that there are only two ways in which labour can obtain a higher real wage:

 If firms decrease their mark-up. This causes a lower price level, and for a given nominal wage, a higher real wage. This is referred to as the battle for the mark-ups. If productivity increases If more goods are produced per unit of labour then more goods are available to be divided between firms and labour.

7.3 Identify three factors that will increase the natural rate of unemployment. (3)



- increase in unemployment benefits
- Increase in minimum wages
- / Labour laws and relations to protect employment
- ncrease in the firms mark-up



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SECTION B: Choice questions (30 marks)

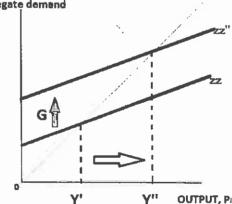
Question 1(15 marks)

 a. Explain and Illustrate by using two different diagrams the impact of an expansionary fiscal policy in:

i. The goods market model. (3)

FILE

aggregate demand

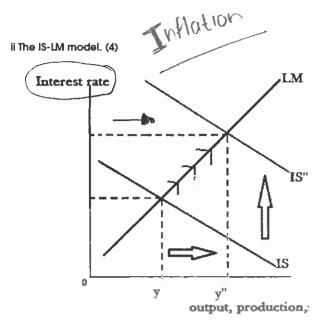


Carried Land

(1+1)v

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iil. Compare the results in (i) and (ii) above. (2)

- Diagram i) shows us activities in the goods market. An expansionary fiscal policy will create the ZZ curve to shift upwards (zz to zz").
- Diagram ii) shows us an IS/LM model. The above-mentioned policy will shift the IS curve upwards (IS to IS") and create an upward movement along the LM curve as well as causing an increase in the interest rate.

b. List three nominal and three real variables in the AS-AD model. (3)

Nominal Variable	Real Variable
Price level (P)	Employment
Nominal Wages (W)	Output (Y)
Nominal money supply (Ms)	Real money supply (M/P)
	Interest rate (i)
	Investment spending (I)
	Demand for goods (Z)
	Real wage (W/P)

c. Briefly explain the meaning of the concept "neutrality of money". (3)

Neutrality of money means that monetary policy (money) is neutral in the medium/ long run. The notion behind this is that the real variables remain unchanged (increase and decrease – return to their original values) and that it is only the nominal values that change. Therefore expansionary monetary policy only Influences nominal variables (they are higher).

Marion

Nominal variables

- Prices
- Wages

Real variables

- Output (production, income and spending)
- Employment
- Real money supply (M/P)
- Interest rate (i)
- Investment spending (I)
- Demand for goods (Z)
- Real wage (W/P)

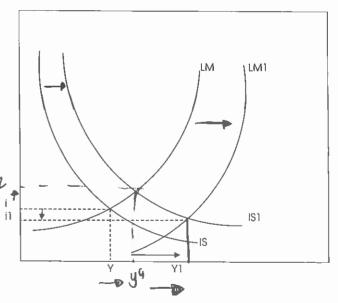
Question 2 (15 marks)

a. During the recession in 2009 the level of output and income declined in the South African economy.

Fiscal - Patt

i. Use the IS-LM model to explain how stabilisation policies were used during the recession to increase the level of output and income. (6)

Monetary MSP 24



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b. Use the IS-LM model for an open economy to explain the possible impact

of a decrease in government spending on the.... (9)

(ontract Tohany fiscal

using a chain of events to explain this concept filest

Gt - Zt - (Yt) Ct - It - this occurs in the goods market

Y↓ - Md↓ - i↓ - this occurs in the financial market

 i_{\downarrow} - E_{\downarrow} - $X\uparrow$ - $NX\uparrow$ - impact on the exchange rate and trade balance

i) interest rate

The level of interest will decrease because the reduction in output will cause a decrease in the demand for money and subsequently interest rates.

il) the level of output and Income,

A decrease in government spending will cause a decrease in the aggregate demand for goods, of which (through the multiplier effect) will lead to a decrease in the level of output and income.

iii) the financial account of the balance of payments,

Reference to the Investment relation must be made here. i.e. 1 = f(I,Y).

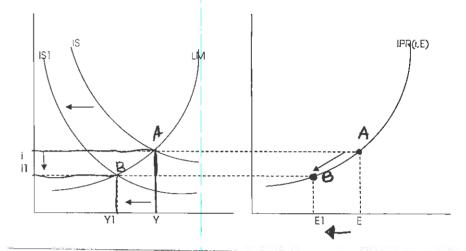
- o reduction in output will lead to a reduction in investment spending (positive relation) (Y1 I1)
- the decrease in interest rates will however lead to an increase in investment (negative relation).
- therefore the overall effect on Investment spending is uncertain as we do not know which effect dominates.

iv) the exchange rate and

The decrease in the Interest rates will lead to a depreciation of exchange rate (interest parity condition)

v) the trade balance.

The trade balance is most likely to improve, given the abovementioned interest parity condition and the "Marshal-Lerner condition)

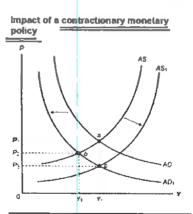


Question 3 (15 marks)

15 \$ 2

 Use the AS-AD model to explain the impact of a contractionary monetary policy on the level of investment in the medium to long run.

(6)





Financial markets

Ms ↓ - Ms/P↓ - interest rate ↑

A contractionary monetary policy will lead to an increase in the level of interest rates, because of the reduction in the nominal and real money supply.







Goods market

Interest rates \uparrow - investment \downarrow - Z \downarrow - Y \downarrow

The increase in the interest rates will lead to a decrease in investments through the multiplier effect this will lead to a greater decrease in aggregate demand for goods and ultimately in output.

Labour market

Y | - employment N | - unemployment u | - wages | - prices |

Expectations

Pe (expected prices) 1- We wage expectations 1 - P (actual prices)1

Financial market

P | - Ms/P1 - interest rates |

Goods market

Investments † - aggregate demand † - output †

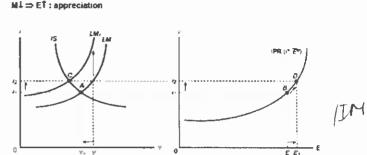
From the above chain of events one can deduce that initially a contractionary monetary policy lead to a decrease in level of the prevailing interest rates, this will lead to a **decrease in investment spending** in the short run.

In the long term, expectations come into play and through successive chain of events this leads to an increase in the level of interest rates, subsequently inducing **investments to increase** in the long run.

This phenomenon lends its self to the **neutrality of money concept**. In essence investment spending remains the same or (Indeterminate)

b. Use the IS-LM model for an open economy to explain the impact of contractionary monetary policy on the financial market, the goods market, the financial account of the balance of payments, the exchange rate and the trade balance. (9)

MO NA



• Financial markets

Ms ↓ - Ms/P↓ - interest rate ↑

A contractionary monetary policy will lead to an increase in the level of interest rates, because of the reduction in the nominal and real money supply.

Goods market

Interest rates ↑ - Investment ↓ - Z ↓ - Y↓

The increase in the interest rates will lead to a decrease in investments. Through the multiplier effect this will lead to a greater decrease in aggregate demand for goods and ultimately in output.

Financial account of the balance of payment

Given the reduction in investments, the financial account is most likely to decrease.

• Exchange rate

Interest rates hikes will lead to an appreciation of the nominal exchange rate, this can be explained by the Interest parity condition (positive relation between the interest rates and exchange rates)

Trade balance

Given the appreciation of the exchange rate and the Marshal Lerner condition, the trade balance will deteriorate or worsen.

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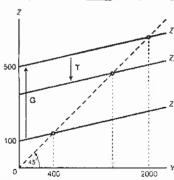
Section C: MCQ

- 1 Which of the following statements are correct?
 - The GDP is the total value of all final and intermediate goods and services produced within
 - - the boundaries of a country during a particular period χ Nominal GDP is valued at current prices while real GDP is valued at prices in a base year Given a population growth rate of 2.5% per annum in South Africa, a real economic growth rate of between 2% and 2.5% is needed for the real GDP per capita to increase N
 - A considerable rise in meat prices can be considered as inflation X The so-called 'jobless growth' refers to a situation where employment declines even during periods of positive economic growth
 - a, b and c
 - b, c, d and e 2
 - Only b, c and e
 - Only b and e a, b and e
- 2 Which of the following will shift the demand curve upwards in the goods market to indicate an ncrease in autonomous spending?
 - An increase in taxation а
 - A decrease in taxation X
 - An increase in the marginal propensity to consume
 - An increase in autonomous investment
 - a, c and d b, c and d
 - Only d
 - Only c
 - Only b and d





Question 3 refers to the following diagram which represents the balanced budget multiplier. The marginal propensity to consume is 0.75 (%). Study the diagram and answer the following question



TAY = 0,75(400) X4

1200

- 3 The net effect of the budget balanced on the level of output and income is
 - equal to 0 (zero) an increase of 1 600 an increase of 400
 - an increase of 100 a decrease of 100

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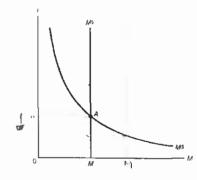
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Question 4 is based on the following information

- 4 Which one of the following statements is correct?
 - The budget surplus is 30, the trade surplus is 50 and the balance on the financial account
 - The budget deficit is 30, the trade deficit is 50 and the balance on the financial account is
 - The budget deficit is 50, the trade deficit is 30 and the balance on the financial account is
 - The budget deficit is 30, the trade deficit is 50 and the balance on the financial account is

Question 5 is based on the following diagram



- Which of the following statements is/are correct?
 - If the interest rate is higher than it then an excess supply of money exists and financial market participants will buy bonds to move back to equilibrium.
 - If the interest rate is higher than it then an excess demand for money exists and financial market participants will sell bonds to move back to equilibrium X
 - If the central bank wishes to decrease the interest rate in the economy it should buy bonds on the open market and the Ms curve shifts to the right.
 - If the central bank wishes to decrease the interest rate in the economy it should sell bonds on the open market and the MS curve shifts to the right 📉
 - a and c
 - a and d
 - b and c
 - b and d
 - Only a

Which of the following can be regarded as endogenous variables in the IS-LM model?



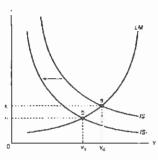
Nominal money supply Level of output and income Consumption spending 1 Government spending



a band c Only b and c

- a, c and d Only c and d
- Only b

Question 7 is based on the following diagram



contractionary GATP

Which of the following factors will cause a shift from IS to IS,?

- A decrease in investment spending due to an increase in the interest rate.
- A decrease in autonomous consumption spending. U
- A decrease in government spending
 An increase in taxation
- A decrease in the nominal money supply X
 - a, b, c, d and e Only a, c, d and e Only b, c and d Only a b. c and d 5 Only b, c and e
- Given the following information

Interest rate on RSA bonds 6% Interest rate on USA bonds 4%



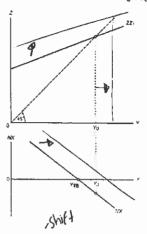
Which one of the following statements is correct?

- If the expected depreciation of the rand is more than 2% financial market participants will buy RSA bonds ×
 - If the expected depreciation of the rand is more than 2% financial market participants will buy USA bonds
- If the expected depreciation of the rand is 3% financial market participants will be indifferent between RSA and USA bonds X
- If the expected appreciation of the rand is 3% financial market participants will buy USA bonds >c

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Questions 9 and 10 are based on the following diagram



An increase in exports will lead to a

movement along the NX curve downward shift of the demand curve (ZZ₁ curve) shift of the NX curve to the right deterioration of the trade balance

10 Given goods market equilibrium in the above diagram, what would the likely impact of a

depreciation of the domestic currency be? The ZZ- curve will shift upwards

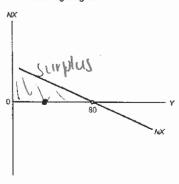
The ZZ- curve will shift downwards The domestic level of output will increase and there will be a righer trade deficit.

The domestic level of output will increase and there will be a lower trade deficit.

The domestic level of output will decrease and there will be a trade balance

- a, b, c and d
- Only b and c 2 Only a, c and d
- Only a and d
- Orly a

Question 11 is based on the following diagram





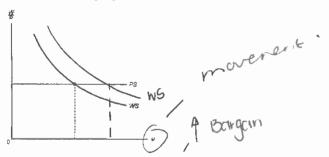
11 At any income level lower than R80 million a trade surplus occurs because if

- Y1 → IM1 → NXI
- $YI \rightarrow IMI \rightarrow NXI$
- $Y \uparrow \rightarrow X \uparrow \rightarrow NX$ 3
- $YL \rightarrow X\uparrow \rightarrow NX\uparrow$
- (5) YI → IMI → NX↑

12 According to the interest-parity condition

- 1 a lower domestic interest rate leads to a depreciation of the nominal exchange rate and a deterioration of the trade balance X
 - a higher domestic interest rate leads to an appreciation of the nominal exchange rate and a deterioration of the trade balance
- 3 an appreciation of the nominal exchange rate leads to a higher interest rate and a deterioration of the trade balance
- 4 a depreciation of the nominal exchange rate leads to a lower interest rate and an improvement of the trade balance

Question 13 is based on the following diagram



- 13 Which one of the following factors will cause a rightward shift of the wage-setting curve?
 - 1 An increase in the bargaining position of workers resulting from a decrease in the unemployment rate 7
 - An increase in the bargaining position of workers due to labour legislation
 - An increase in the mark-up by firms
 - An increase in the level of output and income

100 166

14 The derivation of the AD curve can be presented by the following chain of events

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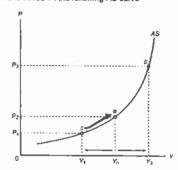


15 Which of the following statements are correct?

- The IS curve gives a picture of what happens in the goods market when the interest rate changes V
- The LM curve gives a picture of what happens in the financial market when the level of output and income changes
- The AD curve gives a picture of what happens in the goods market and financial market when the price level changes V
- The AS relation captures the affects of output and income on the price level and is derived from the wage-setting relation and price-setting relation in the labour market

- a, b, c and d
- Only b, c and d
- Only a. c and d Only a, b and c
- 5 Only a and b

Question 16 is based on the following AS curve



16 A movement from point c to point b indicates that the

nominal wage is unchanged X real wage increases X unemployment rate decreases expected price level is higher > actual price is higher U

- Only b and c
- 2 a b, c and e
- Only bic and e
- b and d
 - Only cland e

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Q1-4	Q6-2	Q11-5
Q2 - 3	Q7 - 3	Q12 - 2
Q3 - 3	Q8 - 2	Q13 - 2
Q4 - 4	Q9 - 3	Q14-2
Q5 - 1	Q10 - 4	Q15 - 1
		Q16-5

Exam Solutions Oct 2012

Section A

1. Give two examples of stabilisation policies that can be used in an economic recession to increase the level of output and income (2)

Expansionary monetary policy and expansionary fiscal policy

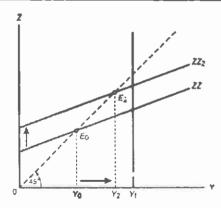
2. Distinguish between induced consumption and autonomous consumption (2)

Autonomous consumption - consumption spending by households that is independent of income

Induced consumption - consumption spending by households that is caused by or dependent upon income. There is a positive relationship between induced consumption and the level of income.

3. Use the goods market model to explain the impact of an Increase in government spending of a 100 and an increase in taxation of 100 on the equilibrium level of income. Show your calculations (2)





In the original equilibrium, we have the following: c = 0.8, c0 = 200, G =0, T = 0 and Y0 = 1000 (equilibrium output and income) Hence the demand for goods function $Z = (c0 + \overline{l} + G - c\overline{l}) + cY$ is

 $Z_0 = 200 + 0.8(1000) = 1000$

After including the increase in taxes and government expenditure: $Z_1 = 200 + 100 - 0.8(100) + 0.8(1100) = 1100$

While an increase in government spending initially increases output and income by 100 an increase in taxes of 100 does not initially



decrease output and income by 100 but incirectly (through the consumption function) by a x 100.

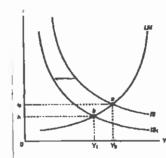
The following example illustrates this expansionary effect. Assume that c = 0.8 and that G increases by 100 and Tincreases by

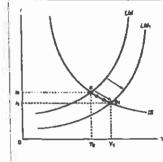
The value of the multiplier is 5.

An increase of 100 in government spending increases Y by 100 x 5 =

An increase of 100 in taxes decreases Y by $0.8(100) \times 5 = 400$ The net effect is an increase of 100 in output and income.

4. Diagram A: Contractionary fiscal Diagram B:Expansionary Monetary





In both cases the interest rate is lower. Explain the reason for this decline, (2)

Also explain the impact of these policies on investment spending (3)

Contractionary fiscal policy is aimed at "cooling down" the economy. The decline in the level of output reduces the demand for money because there is a lower level of transactions. The decrease in the demand for money leads to a decline in the interest rate in the financial market. The decline in the interest rate increases investment spending because investment spending is a negative function of the interest rate

Expansionary monetary policy is an increase in the nominal money supply in order to stimulate economic activity by increasing the demand for goods. The increase in the nominal money supply, which increases the real money supply, causes the interest rate to decline. The decrease in the interest rate increases investment spending, the demand for goods and the level of output and income.

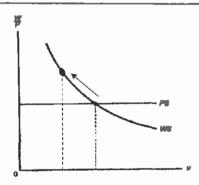


Explain the impact of a depreclation of the exchange rate on the level of output and income and the trade balance. (4)

Given that the Marshall-Lerner condition holds, a **depreciation** results in an improvement in the trade balance and the level of output and income. The level of output and Income increases since the demand for domestic goods increases in the economy. The increase in the demand for domestic goods is the result of a rise in exports, which increases the demand for goods and the level of output.

Use the labour market diagrams to show graphically the impact of the following:

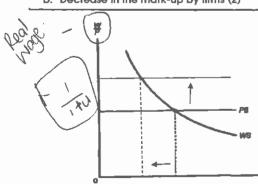
a. Increase in the level of output and income (2)



 $Y \uparrow \rightarrow N \uparrow \rightarrow u \downarrow \rightarrow W \uparrow$

As a result there is an upward movement along the WS curve and the bargained wage will be higher than the implied wage.

b. Decrease in the mark-up by firms (2)



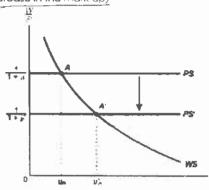
P=(1+W) W

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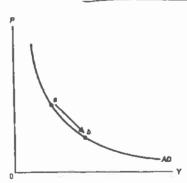
c. A supply shock (2)

(Similar to an increase in the mark-up)



oil price 1

7. Given the following AD curve, explain what happens to the following variables during a downward movement from point a lo b....(5)



- a. Nominal money supply
- b. Real money supply
- c. Interest rate
- d. Investment
- e. Level of output and income

A movement along the AD curve is caused by a change in the price level.

As workers revise their price expectations downwards, they decrease their nominal wage demands. Firms react to this decrease in the nominal wages by decreasing the prices of goods and services. This

decrease in the <u>price level</u>, however, affects the financial market, where a decrease in the price level increases the <u>real money supply</u>, which in turn causes a decrease in the <u>interest rate</u> and an increase in <u>investment spending</u>, which increases the demand for goods and the <u>level of output</u> increases. <u>Nominal money supply</u> is unchanged since the reserve bank has made no change to it.

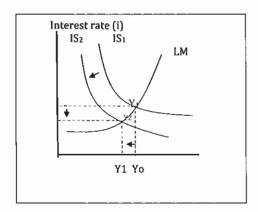
Section B: Choice questions

 In 2009 policy makers in SA used fiscal and monetary policies to deal with the Impact of the great recession on the SA economy. Use the IS-LM model to explain (15):

a. Impact of recession on SA economy

Despite the fact that the crisis took place in the financial sector, the result was a negative effect on the level of consumer and investor confidence. Both these factors are autonomous factors that affect the level of aggregate demand. The result is that this led to a decrease in aggregate demand and a leftward shift of the IS curve. The decrease in aggregate demand would lead to the following:

 $Z\downarrow \rightarrow Y\downarrow$; $Y\downarrow \rightarrow Md\downarrow$; $Md\downarrow \rightarrow i\downarrow$. The decrease in interest rate will serve as a stimulus to investment spending and as a result the effect on Y is constrained.

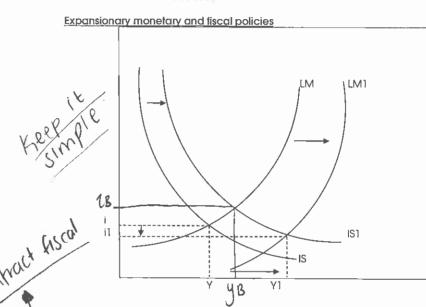


b. How fiscal and monetary policies were used to deal with this impact

Monetary policy is the action taken by the monetary authorities of a country to influence the economy through specific money market actions. In this case expansionary monetary policy would be applicable. The central bank would increase the nominal

money supply which would result in a rightward shift of the LM curve. The increase in money supply would have the following impact on the economy:

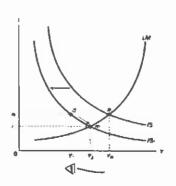
 $M\uparrow \to M/P\uparrow \to i\downarrow; \quad i\downarrow \to l\uparrow \to Z\uparrow \to Y\uparrow; \ Y\uparrow \to l\uparrow; \ Y\uparrow \to C\uparrow$ We also used expansionary fiscal policy where government spending was increased and taxes reduced

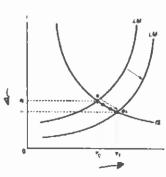


 How countries can make use of fiscal and monetary policies to decrease the budget deficif and increase the level of output.

Decrease in autonomous spending (contractionary fiscal policy)

Increase in money supply (expansionary monetary policy)





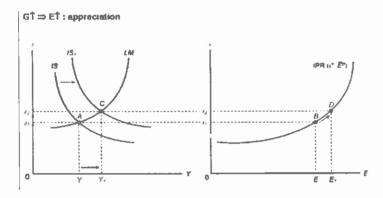






- Use the IS-LM model for an open economy to explain the possible impact of a contractionary monetary policy and an expansionary fiscal policy on the (15):
 - a. Level of output and income
 - b. Interest rate
 - c. Financial account of BoP
 - d. Exchange rate
 - e. Trade balance

Expansionary Fiscal policy



Contractionary monetary policy

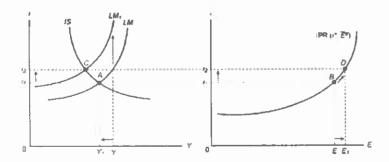
M\$ ⇒ E1 : appreciation

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Variable/ Veranderiika	Impact of a contract dary monetary policy/ trapak van 'n bepurbe de monetire buield	Impect of an expansionary fiscal policy/ Impet van 'n ekspensionistiese finksie beleid	
Level of output and income? Produkme- an inkomepal		1	
Interest rain/ Rentektion	†	1 (vowchry	9
Financial coount of the balance of payments! Financiale rekening van die betatingsbalans	1 mlow	1:mflow	
Exchange rate? Wisselkoers	1	†	
Trade batance/ Handelsbalans	1201Sers	1 20, 20, 5	

 Use the AD-AS model to explain the short run to the medium and long run impact of an expansionary fiscal policy on the goods market, the financial market and labour market. (15)

Short run:

G ↑ Z↑ Y↑ Y↑ Ma↑ I↑

∐ ∱i

but Y↑ I↑ so ∆I is uncertain

Rightward shift of AD: a to b

Labour market: Y1 N1 u1 W1P1

- medicin

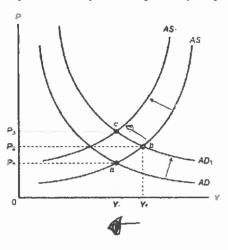
Upward movement along AS: b to c

Medium run: P↑ M/P↓ i↑ I↓ Z↓ Y↓

Leftward shift of AS



Impact of an expansionary fiscal policy



Section C: MCQ

Expenditure on gross domestic product

	is the same as gross domestic expenditure
)	includes spending on exports and exclude spending on imports includes spending on imports and excludes spending on exports
	A DESCRIPTION OF THE PROPERTY

Question 2 is based on the following entermitton

Government apanding = 120 Texabon = 90 Exports = 250 Imports = 300 Capital vallous = 70 Capital outflows = 30

2 Which one of the following statements in correct?

The budget surplus in 30, the trade surplus is 50 and the balance on the financial account

The budget deficit at 30, the tracks deficit as 50 and the belance on the financial account at 3

The budget defict is 50, the trade deficit is 30 and the beforce on the first call account is

The budget petict is 40, the trade defict is 50 and the belance on the financial account is

The budget deflot is 30, the tradit deflot in 50 and the behance on the financial scount is

3 Which of the following will avorage the level of output and ancome in the goods market?

An uncrease or tecation ×

A decrease in the integral propensity to save

An increase in autonomous investment

a, blandic

Only a 0 Only b and 6

Only c Not B, D or C

221 22

In the goods market model an increase in expenditure implies an increase in output, income and employment. The implication of this is that an increase in expenditure can be used to achieve full employment. Which of the following are constraints to prevent an economy from reaching full employment through expenditure policies? a OV

Jobless growth 🗹

Budget constraints on government spending

A low properties to import

An increase in the inflation rate

a, b, c and d Only a and b

Only a, b and d

9 Only b, a and d Only c and d

5 On the financial market the impact of an increase in the level of output and income and a decrease in the supply of money is that the interest rate



le endetermine



6 Which of the following can be regarded as endogenous variables in the IS-LM model?

Nominal money supply

Level of output and income Consumption spending

Government spending

1. a, b, c and d 2 Only b and c 3 Only a c and

Only a, c and d

Only a and d

Not a, b, c or d

Contract GAT

7. Which one of the following factors will cause a televard shift of the IS curve?

An increase in investment spending due to a decrease in the interest rate.

An increase in consumption spending due to an increase in the level of output and income.

An increase in investment spending due to an increase in the level of output and income

A decrease in government spending

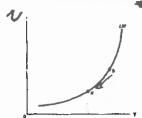
An increase in government spending

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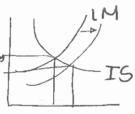


Question 8 is based on the following distance of an LM curve.



- 8 A downward represent from point b to point a replies that
 - 1, government spending in the economy decreases causing the interest rate to decrease a decrease in the level of output and income increases the money supply and the interest
 - rate decreases X a decrease in the interest rate increases investment spending in the economy a decrease in the level of outsut and income decreases the demand for money and the
 - interest rate decreases. the manny supply in the economy decreases assume the level of output and income to
- 9 Companing the impact in the IB-LM model for a closed economy of an expansionary monetary policy with an expansionary fiscal policy on investment spending the result is that
- In both cases investment spending definitely increase X In the case of fiscal policy investment spending is indeterminate and in the case of monetary policy investment spending is higher
 - In both cases investment spending is indeterminate
 - In both cases investment spending is definitely lower
- in the case of fiscal policy investment spending it is higher and in the case of monetary policy investment spending is lower
- 10 From the perspective of Bouth Africa, a depreciation of the nominal exchange rule and an increase in the domestic price level relative to foreign price levels
 - null deficiely exceese the real exchange rate will definitely decrease the real exchange rate
 - is not necessarily sufficient to bring about a decrease in the real exchange rate to not necessarily sufficient to bring about an increase in the real anchange rate

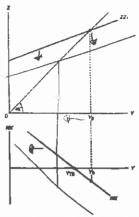








Question 11 is based on the following diagram



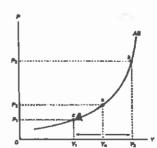
X Z T Y JIN

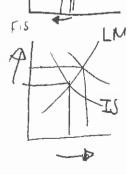
M

LM

- 11 What would heapen to the level of output and the trade believor if exports degreese?
 - The level of output will decrease and the trade deficit will represent The level of output will decrease and the trade surplus will decrease
 - The level of output will be unchanged and the trade deflot will increase
 - The level of oxigut will increase and the trade deflot will increase Both the level of output and trade belance will be unchanged
- 12 Comparing the impact of a contractionery monetary policy with an expansionary fiscal policy in the IS-LM model for an open economy on the expansion and trade deficit the results are that
 - in both cases the exchange rate appreciates and the trade defect decreases.
 - an both cases the exchange rate appreciates while the trade deficit for facal policy incremen and for monetary policy it decreases
 - for Small policy the exchange rate depreciate and the trade defict increases while for monetary policy the exchange rate appreciate and the trade defict decreases
 - for fiscal policy the exchange min appreciate and the trade deficit decreases while for
 - monetary policy the exchange rate depreciate and the trade deficit increases or both cases the exchange rate appreciates and the trade deficit occusion

Question 13 is based on the following AS curve.

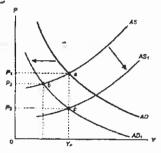


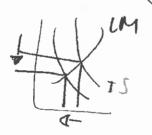


13 A movement from point a to point c indicates that the

- nominal vision in unchanteed
- mel watce decre
- Only a Only b
- Only c
- Only b and c Not a, b or c
- 14 Comparing the medium to long run impact on an AS-AD model of an exp policy with that of an expansionary fiscal policy on investment spending the results are
 - For figure policy investment, spanding at lower and for monetary policy investment spanding is higher
 - In both cases investment spending is unchanged
 - In both cases investment epending is higher
 - In both cases investment spending it is lower
 - For fiscal policy investment spending is lower and for monetary policy investment spending

Question 15 is besid on the following degrees which represents the expect of a contractionary flocal policy





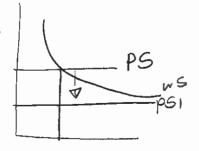
Which one of the following statements prime correct?

- 1. In the short run the increase in the interest rate in the financial morket will lead to a decrease in investment in the goods market, a decrease in the demand for goods and a decrease in the level of output and income. This is represented by a shift from AD to AD,
- The movement along the AD curve from point b to point a si the result of the events in the labour market in the short run
- In the medium run, the AS curve will shift from AS to A5, because of the following chem of events Pa - Wi - Pi
- At point a the level of output a at the matural level of output and all the real values are equal to their original values.

Which of the following stelepheniu are correct?

An increase in the price of oil (a supply shock) will

- shift the PS curve upwards × lead to a lower real wage 🛹
- lead to higher natural rate of unemployment V
- shift the AS curve to the right X
- lead to a lower natural level of output
- a.b.o md e
- b, c. d and =
- a and d b, d and e b, c and a



Oct 2012 MCO solutions

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Q1-3	Q6 - 2	Q11-1
Q2 - 2	Q7 - 4	Q12 - 5
Q3 - 3	Q8 - 4	Q13 - 5
Q4 - 3	Q9 = 2	Q14 - 2
Q5 - 1	Q10 - 3	Q15-3
		Q16-5

Section A:

Exam Solutions May 201

Question 1

Explain the difference between autonomous and induced consumption. (2)

Autonomous consumption - consumption spending by households that is independent of income.

Induced consumption - consumption spending by households that is caused by or dependent upon income. There is a positive relationship between induced consumption and the level of income

Question 2

Distinguish between a budget deficit and financial account deficit of the balance of payments. (3)

Budget deficit: this refers to the difference between government spending (G) and government revenue, namely taxes (T). A deficit implies that G exceeds I.

A Financial account deficit refers to the balance on the financial account in the balance of payments. This means that financial outflows exceed financial inflows.

Question 3

Explain and illustrate using two digrams the impact of an expansionary fiscal policy in the:

Goods market (a)

Expansionary fiscal policy can take the form of an increase In government spending and/or a decrease in tax rate. Either way it will lead to an increase in aggregate demand. In the goods market model this will be indicated by an upward shift of the aggregate demand (ZZ) line and consequently an increase in the equilibrium level of income.

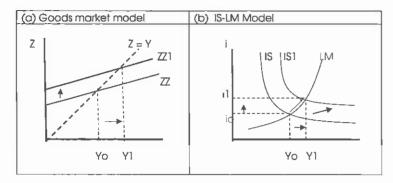
IS-LM (b)

in the IS-LM model the increase in aggregate demand caused by the expansionary fiscal policy is illustrated by a rightward shift of the IS curve.

The following occurs: $Z\uparrow \rightarrow Y\uparrow$, in the financial market this leads to Y↑→ Md↑ and therefore i†. This is illustrated by a movement along the LM curve.



(c) Draw the two diagrams in the space provided and compare the results.



(c) In both cases the level of output (Y) will increase. In the case of the goods market model I is autonomous so is not affected by the change in government spending or taxes. In the case of the IS-LM model, I is endogenous and is influenced by both the interest rate and the level of income. The increase in the interest rate will cause I to decrease while the increase in Y will lead to an increase in I. The end result is indeterminate.

Question 4

Read the following paragraph and answer the questions.

The international crisis of 2007 impacted negatively on consumer and investors' confidence

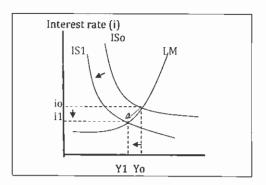
(a) Use the IS-LM model to show and explain the impact of the crisis on the level of output and Income

Despite the fact that the crists took place in the financial sector, the result was a negative effect on the level of consumer and investor confidence. Both these factors are autonomous factors that affect the level of aggregate demand. The result is that this led to a decrease in aggregate demand and a leftward shift of the IS curve. The decrease in aggregate demand would lead to the following:

 $Z\downarrow \to Y\downarrow$; $Y\downarrow \to Md\downarrow$; $Md\downarrow \to i\downarrow$. The decrease in interest rate will serve as a stimulus to investment spending and as a result the effect on Y is constrained.

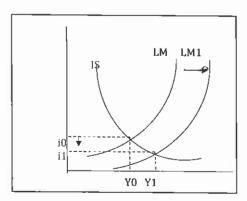
Contractionary

74 md +



(b) In response to the worldwide economic crisis many countries used monetary policies in an attempt to soften the Impact on the level of output and income. Use the IS-LM model to explain how monetary policy can be used to soften the impact of the crisis. (4)
Monetary policy is the action taken by the monetary authorities of a country to influence the economy through specific money market actions. In this case expansionary monetary policy would be applicable. The central bank would increase the nominal money supply which would result in a rightward shift of the LM curve. The increase in money supply would have the following impact on the

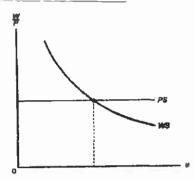
 $\mathsf{M}\!\!\uparrow\!\!\to \mathsf{M}/\mathsf{P}\!\!\uparrow\!\!\to \mathsf{i}\!\!\downarrow;\;\;\mathsf{i}\!\!\downarrow\!\!\to \mathsf{I}\!\!\uparrow\!\!\to \mathsf{Z}\!\!\uparrow\!\!\to \mathsf{Y}\!\!\uparrow;\;\mathsf{Y}\!\!\uparrow\!\!\to \mathsf{I}\!\!\uparrow;\;\mathsf{Y}\!\!\uparrow\!\!\to \mathsf{C}\!\!\uparrow$



economy:

Question 5

Use the following diagram to explain what happens to the following variables if the unemployment rale decreases. (7)



Targeted real wages:

If the unemployment rate decreases then the bargaining power of workers increases. Workers then bargain for a higher nominal wage in order to try and increase their real wage (targeted real wage)

Nominal wage:

The nominal wage (W) increases because of the increase in bargaining power.

Implied real wage (feasible wage)

The implied real wage will remain the same. The increase in (W) will result in an increase in prices and the real wage (W/P) will stay the same. This is determined through the price setting function.

Section B: Choice questions

Question 1

(a) Use the goods market model to show and explain why the net effect of an equal increase in government spending and taxes will still have a stimulatory effect on the level of output and income. (8)

The inItial effect of an increase in taxes is on the disposable income of households, while the change in government spending is directly on aggregate demand.

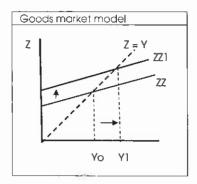
An increase in the level of taxation causes disposable income to decrease by an amount equal to the increase in taxes, however, the decrease in consumption spending is limited by the marginal propensity to consume effect (cT), that is, the decrease in consumption spending is less than 1.

The Increase in government spending (\mathbb{G}) Increases aggregate demand and therefore leads to an increase in the level of output and

income (Y). This increase in Y in turn leads to an increase in consumption spending by households and therefore a further increase in aggregate demand. This is the multiplier effect.

The end result is that the effect of an equal in 'ease in G and T will still lead to an increase in Y.

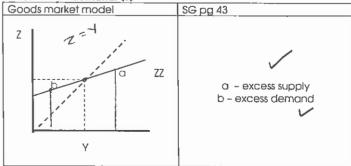
Draw a graph showing Keynesian model; show upward shift of ${\mathbb Z}$ line and an increase in the equilibrium level of income.



(b) Ust four constraints on using fiscal policy to increase the demand for goods in SA. (4)

- Structural unemployment requires a different remedy
- Jobless growth (capital-intensive production)
- Wage increases might lead to inflation
- o Budget deficit constraint as well as crowding out effect
- Balance of payments might act as a constraint (with high import propensity)

(c) Indicate clearly on the following diagram the excess supply and excess demand position. Give the chain of events in reaching equilibrium in the case of excess demand. (3)



Chain of events.

Z > Y: Y1 C1 Z1

Question 2

(a) List the three properties of the AS curve. (3)

- AS has a positive slope
- The expected price level is the same along a given AS curve.
- The real wage is the same along any given AS curve



(c) Use the AS-AD model to illustrate and explain the impact of an expansionary monetary policy in the medium to long run. (12)

Refer to pages 171 to 175 for explanation and graph.

AD-AS Model - Monetary Expansion	Explanation	
AS" AS AD AD YOU Y'	$\begin{array}{c} M\!\!\uparrow \Rightarrow M/P\!\!\uparrow \Rightarrow i\!\!\downarrow \\ i\!\!\downarrow \Rightarrow I\!\!\uparrow \Rightarrow Z\!\!\uparrow \Rightarrow Y\!\!\uparrow \\ Y\!\!\uparrow \Rightarrow N\!\!\uparrow \Rightarrow u\!\!\downarrow \Rightarrow W\!\!\uparrow \\ \Rightarrow P\!\!\uparrow \\ Pe\!\!\uparrow \Rightarrow W\!\!\uparrow \Rightarrow P\!\!\uparrow \\ P\!\!\uparrow \Rightarrow M/P\!\!\downarrow \Rightarrow I\!\!\uparrow \Rightarrow I\!\!\downarrow \\ \Rightarrow Z\!\!\downarrow \Rightarrow Y\!\!\downarrow \end{array}$	M

Question 3

(a) Using the following diagram, indicate what happens to the level of output and income and the trade balance it:

(i) Exports increase

Then Net exports (NX) will increase and the NX curve will shift to the right: In addition, the increase exports leads to an increase in aggregate demand (Z) and the ZZ line will shift upward. This leads to an increase in Y and an improvement in the trade balance.

(ii) Government spending Increases

If government spending increases the ZZ line will shift upwards (aggregate demand increases) and the equilibrium level of income increases. The increase in Y leads to an increase in imports (IM) and the trade balance will worsen (NX decreases).

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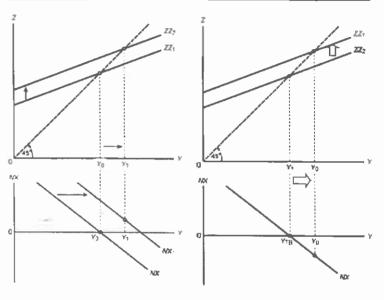


(iii) Compare the above results regarding the level of output and trade balance

In the case of (i) the level of output increases and the trade balance improves, while for (ii) the level of output also increases but the trade balance worsens.

Exports Increase

Government Spending increases

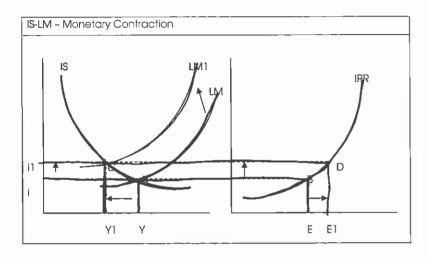






(b) Draw a diagram of the IS-LM model for an <u>open economy to indicate</u> what will happen to the <u>nominal exchange rate if a contractionary</u> monetary policy is applied. Explain the impact on the trade balance.

Refer to page 136 and 137 (202: page 238/9) in the study guide.



(c) Use a chain of events to indicate the impact of a depreciation of the nominal exchange rate on the demand for goods and the level of output and income in the goods market for an open economy. (2) \checkmark E $\downarrow \rightarrow X\uparrow \rightarrow NX\uparrow$ Also $NX\uparrow \rightarrow Z\uparrow \rightarrow Y\uparrow$

SECTION C: MCQ May/June 2011



1.	1	6.	2	11.	2	16.	2
2.	5	7.	2	12.	2	17.	4
3.	2	8.	3	13.	4	18.	1
4.	1	9.	5	14.	4	19.	2
5.	3	10.	1	15.	3	20.	4 '

EXXT NXT NXT ZT YT