



**STRATHMORE UNIVERSITY BUSINESS SCHOOL
END OF SEMESTER EXAMS FOR THE DEGREE OF BACHELOR OF
FINANCIAL SERVICES
BFS1204: INTRODUCTION TO MACROECONOMICS**

16th March, 2022

Time: 2 hours

Instructions

Attempt **Question One (Compulsory)** and any other **TWO** questions

Question 1

- (a) Define the following as used in economics {10 marks}
 - (i) Gross Domestic Product (GDP)
 - (ii) Fiscal Policy
 - (iii) Money multiplier
 - (iv) Velocity of money
 - (v) The IS curve
- (b) Using the tenets of the quantity theory of money and the liquidity preference theory by Keynes explain any five reasons why people hold money {7 marks}
- (c) Using your country as for illustrations, with the help of minimum working examples discuss the various macro economic policy objectives {6 marks}
- (d) Using the aggregate demand curve, explain the trinity between inflation, exchange rates and interest rates {7 marks}

[30 marks]

Question 2

Table 1 summarizes information extracted from the national income statistics of Country Z

Table 1: **Country Z National Income Statistics**

Statistic	Value in KES million
Wages and salaries	350
Mixed incomes	38
Net income from abroad	15
Gross profit/rent and interest of firms	150
government and other institutions	
Taxes on products	71
Subsidies on products	3
Depreciation	65

Required:

- Use the statistics in Table 1 to calculate the GDP of country Z at markets prices {3 marks}
- Use the statistics in Table 1 to calculate the gross national income of country Z at markets prices {3 marks}
- Use the statistics in Table 1 to calculate the net national income of country Z at markets prices {3 marks}
- State the difference between the statistic in 2(i) and 2(ii) {2 marks}
- State any three uses of the GDP {3 marks}
- State three reasons why GDP is an approximate measure of the national income in country Z {3 marks}
- State the sufficient circumstances under which the GDP of country Z can be compared with the GDP of another country {3 marks}

[20 marks]

Question 3

The following equation is a Keynesian cross model:

$$C = 120 + 0.8(Y - T)$$

Planned investments is 200; government purchases and taxes are both 400

Required:

- Derive an expression for planned expenditures {4 marks}
- Determine the equilibrium level of income {4 marks}

- (iii) Determine the new equilibrium income if government purchases increase to 420 {3 marks}
- (iv) Calculate and interpret the government purchases multiplier given the findings in 3(iii) above {3 marks}
- (v) Sketch the scenarios represented in 3(i)-3(iii) above in a well labelled diagram {6 marks}

[20 marks]

Question 4

Table 2 shows the money creation process in an economy with Bank A only:

Table 2: Money Creation Process by Bank A

Depositor	Deposit	Required reserve	Excess Reserve	Money created
A	100	20	80	80
B				
C				
D		8.19		
E				
F				
G	26.22			
H				
I				
J			10.74	

The required reserve is 20% and the initial deposit is KES100

Required:

- (i) State the circumstances under which Bank A would be able to create credit {6 marks}
- (ii) Complete Table 2 {7 marks}
- (iii) Calculate the size of the money multiplier {3 marks}
- (iv) Calculate the total amount of deposits that Bank A will be holding if the ideal money creation process occurred {2 marks}
- (v) Calculate the total amount of money created by Bank A {2 marks}

[20 marks]

Question 5

The following equations describe a closed economy with government

$$\begin{aligned}Y &= C + I + G \\C &= 50 + 0.75(Y - T) \\I &= 150 - 10r \\(M/P)^d &= Y - 50r \\G &= 250 \\T &= 200 \\M^S &= 3000 \\P &= 4\end{aligned}$$

Required:

- (i) Using relevant equations derive the IS curve and sketch it {5 marks}
- (ii) Using relevant equations derive the LM curve and sketch it {5 marks}
- (iii) Calculate the level of income and interest rate that guarantee income both the goods and the money market {5 marks}
- (iv) State the monetary policy tools that the monetary authority can use to increase the equilibrium income and lower the interest rate at the same time {2 marks}
- (v) To state whether there is a scenario in which fiscal policy can lead to an increase the equilibrium income and lower interest rate at the same time {3 marks}

[20 marks]

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