# CHUKA



**UNIVERSITY** 

## UNIVERSITY EXAMINATIONS

### FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF MASTERS OF SCIENCE IN ECONOMICS

## **MSEC 821: ADVANCED MACRO ECONOMICS THEORY I**

## **STREAMS: MSEC**

# TIME: 3 HOURS

2.30 PM - 5.30 PM

## DAY/DATE: MONDAY 13/08/2018 INSTRUCTIONS:

## Answer Question One and any other Three Questions

## **Question One**

(a) Given y=c(y-ty)+i+g, derive both the balanced budget multiplier and the tax rate multiplier and explain your answers. [8 marks]

(b) If mps and mpt are equal to 0.245, get s+t/dydi and interpret your results.

[3 marks]

[4

(c) Given 
$$Y = C + 1 + G + NX$$
, show that net foreign investment is equal to trade balance.

#### marks] Question Two

- (a) The real output in an economy is given as y=c(y-ty)+i(r) derive the multiplier for change in money and coment on your result. [5 marks]
- (b) Explain how disequilibrium in income for a closed economy is solved using the inventory approach. [5 marks]

(c) Explain the accelerator theory of investment and discuss its major weaknesses. [5 marks]

## **Question Three**

(a)	Given that an individual lives for two periods and that he inherits no asset and leaves no bequest,		
	(i)	Show that savings in period one equals the opposite of savings in p	period two. [4
marks]			
	(ii)	Show graphically and explain his inter temporal budget constrain.	[4 marks]
(b)		hall open economy, investment depends on worlds interest rates. She cally and explain both trade deficit and surplus.	ow this [7 marks]
Question Four			
(a)	Briefly explain the following models of macroeconomics		
	(i) (ii)	Ando-Modigliani Approach Rational expectation theory	[4 marks] [4 marks]
(b)	Explain the important equations under Mundel-Fleming model and show graphically how equilibrium income and exchange rate are determined. [7 marks]		
Question Five			
(a)	Explain the assumptions of Solow growth model. [6 mark		[6 marks]
(b)	Graphically discuss the dynamics of Solow growth model. [9 marks]		