

FACULTY OF MANAGEMENT AND ADMINISTRATION

COURSE TITLE: MEC 204-INTERMEDIATE MACROECONOMICS

SEMESTER 1: FINAL EXAMINATION NOVEMBER 2013

LECTURER: MR. L. NGENDAKUMANA

TIME: 3 HOURS

INSTRUCTIONS

Answer all questions in section A and any two [2] questions in section B.

Total possible mark is **60**.

Start each question on a new page in your answer booklet.

The marks allocated to **each** question are shown at the end of the section.

Show all your workings.

Credit will be awarded for logical, systematic and neat presentations.

SECTION A

Question 1

(a) Derive the equilibrium price level and output for any economy with the following characteristics:

C = 10 - 5P (Consumption) I = 20 (Investment) G = 15 (Government expenditure) $Q_S = 5 + P$ (Aggregate supply) [1]

- (b) What happens to production and price if government expenditure decreases to 10
- (c) Using well labeled diagrams, explain what happens to the aggregate supply curve under the classical, basic Keynesian and the extreme Keynesian cases when;
- i. A natural disaster destroys half of the capital stock of the country [3]
- ii. New, more productive machines are invented, but only a third of the labor force is knows how to operate them [3]
- (d) How does a shift in aggregate demand affect prices, real wages and output in the classical? Define the classical unemployment and explain how it arises in a given economy

 [4]

Question 2

Assume that in addition to strictly autonomous investment and government spending, the economy has the following behavioral equations for consumption (C), net tax revenue (T):

$$C = a + c(Y - T)$$

 $T = \overline{T} + \overline{t}Y$
Where: $a = 170$, $I_p = 800$, $\overline{T} = 800$, $c = 0.75$, $\overline{t} = 0.2$, $G = 1800$,

- a. What is the level of consumption when the level of income (Y) equals \$ 6000?[1]

 - b. What is the level of saving when the level of income (Y) equals \$ 6000? [2] c. What are the levels of planned and autonomous planned expenditures when the
 - level of income (Y) equals \$ 6000? What is the level of unintended inventory investment? [4]
 - d. What is the value of the marginal propensity to save? What is the value of the marginal leakage rate? Why are these two magnitudes not equal? [3]
 - e. Is the economy in equilibrium when income (Y) equals \$ 6000? If not what is the level of equilibrium income for the economy described in this question? [2]

Question 3

(a) Using all necessary assumptions, explain the Keynesian theory of consumption [4]
(b) "In consumption theory, a rise in income leads to a rise in the average propensity to consume (APC). Assess this statement using a numerical illustration. [2]
(c) Distinguish between autonomous consumption and induced consumption using a numerical and graphical illustrations in your explanations [2]
(d) Distinguish between flow and stock magnitude and give one example in each case [2]
(e) Why are imports considered to be a leakage in any given economy? [2]
SECTION B
Question 4
(i)For a given level of GNP, discuss what happens to personal income, disposable income, personal consumption expenditures and personal saving if (a) Personal taxes go up (b) Personal interest income declines (c) Personal consumption expenditures rises (d) Corporate profits goes down [2] (ii) Government can finance its budget deficit in two ways. Outline and define each of them and briefly discuss the shortcomings of them. [4]
Question 5
(a) Distinguish between real gross domestic product (GDP) and real gross national product (GNP) as measurements of macroeconomic performance of nations. [2] (b) Using a country of your choice, outline and explain possible causes of a decline in the capacity utilization. [6] (c) Prescribe possible policies that can be implemented to eradicate the problems of low capacity utilization. [4]
Question 6
 (a) Outline and discuss the various investment theories/ approaches (b) State and define the various types of investment (c) Outline the shortcomings in the measurement of investment spending [3]