

# **MAASAI MARA UNIVERSITY**

## REGULAR UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR THIRD YEAR SECOND SEMESTER

# SCHOOL OF BUSINESS & ECONOMICS BACHELOR OF SCIENCE IN ECONOMICS

**COURSE CODE: ECO 3203** 

**COURSE TITLE: ADVANCED MACROECONOMICS** 

DATE: 14<sup>TH</sup> OCTOBER, 2021 TIME: 1100 – 1300HRS

#### **INSTRUCTIONS TO CANDIDATES**

Answer question ONE and any THREE questions

#### **QUESTION ONE**

- (a) Discuss the uncertainty and irreversibility model (real options approach) to investment. (8mks)
- (b) Derive the balanced budget multiplier and interpret. (5mks)
- (c) With an illustration, explain the relationship between the real wage and money wage the firm will offer to the labourers in a competitive market.

  (6mks)

(d) Discuss the channels through which financial development affects economic growth. (6mks)

#### **QUESTION TWO**

- (a) Show that the monopolists demand curve for labour is the competitive firm demand for labour shifted by the factor 1+1/e, where e is the elasticity. (5mks)
- (b) The following structural equations describe a certain economy. C=100+0.8Yd, I=10-10r, G=10, T=0.25, L=Y-100r, M=295; consumption function, investment function, government purchases, tax rate, real money demanded and real money supply respectively. Required:
  - (i) IS and LM equation.
  - (ii) r and y pairs at which the two markets are in equilibrium. (4mks)

(6mks)

#### **QUESTION THREE**

- (a) Derive and interpret the total factor productivity equation for an economy. (6mks)
- (b) Explain why growth in labour increases GDP but not the per capita GDP. (3mks)
- (c) Explain any other TWO factor inputs, not in the TFP model, that would enhance output growth. (6mks)

## **QUESTION FOUR**

- (a) Derive and sketch the steady-state equation. (6mks)
- (b) Explain the effect of an increase in the savings rate on the growth of output. (3mks)
- (c) What is the effect of an increase in population on the steady-state growth on aggregate output? (3mks)
- (d) Show that labour and capital each contribute an amount equal to their individual growth rates multiplied by the share of that input in income. (3mks)

### **QUESTION FIVE**

- (a) Discuss the work-leisure decision of an individual worker. (3mks)
- (b) Explain the meaning of fiscal and monetary policy mix and show effects on r and y. (4mks)
- (c) Prove that Harrods average propensity to save is Domars propensity to save. (5mks)
- (d) Discuss the flexible accelerator model of investment. (3mks)