

JAAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS 2016/2017

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

AEC 101: INTRODUCTION TO MICROECONOMICS

Date: Time: 2HRS

INSTRUCTIONS

- 1. Answer Question **ONE** and any other **TWO** questions.
- 2. Question ONE carries 30 marks, the rest 20 marks each
- 3. Marks will be awarded for being neat, clear and use of relevant illustrations

QUESTION ONE

- (a) Explain the basic economic problems of any society and how they are solved in capitalists and socialists economies (12marks)
- (b) Differentiate between the following:
 - (i) Producer and consumer equilibrium

(4marks)

(ii) Economic and accounting profits

(4marks)

(iii) Explicit and implicit costs

(4marks)

(c) Explain the determinants of elasticity of supply of a good or service. (6marks)

QUESTION TWO

(a) Distinguish between explicit and implicit costs of production and geometrically derive average and marginal products

(10marks)

(b) Explain the features of an oligopolistic market and the concept of kinked demand curve. (10marks)

QUESTION THREE

Suppose that you are given a firm's demand function as

Q = 2000 - 20P

And firm's cost function is given as:

 $TC=0.05Q^2+10,000$

(i) Find the firm's total revenue (TR) and her marginal revenue (MR)

(4marks)

(ii) Calculate the firm's marginal costs (MC)

(2marks)

(iii) Calculate the firm's average costs

(2marks)

(iv) From the information given above, calculate the firm's profit maximizing output and price levels (Q* and P*) (8marks)

(v) Calculate the firm's maximum profit (Π)

(2marks)

(vi) Show that this is the true maximum profit by using the second order conditions as a test (2marks)

QUESTION FOUR

(a)Using diagrams differentiate between the following:

(i) Producer surplus and consumer surplus (5marks)

(ii) Budget and Isocost lines (5marks)

(iii) Price and income consumption curve

(5marks)

(b)Using classical production function, explain the stages of production of a firm and advise on the best optimal stage of operation

(5marks)

QUESTION FIVE

(a) Given a demand function of the form:

Q=1000-20P

Calculate the point elasticity of demand when

p=100 and q=80

(6marks)

(b) Explain the features of an oligopoly market

(8marks)

(c) Explain the importance of price and income elasticity to a producer and government (6marks)