UNIVERSITY OF SWAZILAND

DEPARTMENT OF ECONOMICS

SUPPLEMENTARY EXAMINATION 2015

TITLE OF PAPER:

MICROECONOMICS

COURSE CODE:

ECON 201

INSTRUCTIONS:

ANSWER QUESTION 1 AND THREE OTHER QUESTIONS

TIME ALLOWED:

THREE (3) HOURS

TOTAL MARKS:

100

Question One

a.	Α	firm	's	isog	luant	curve	is	given	bγ	1
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$$Q = L^{2/5} K^{3/5}$$

Where Q = level of output

L = labour input

K = capital input

Assume $P_L = 2$, $P_K = 3$

Where $P_L = price of labour$

 $P_K = price of capital$

Utilizing the Lagrangian Method, calculate the minimum level of costs that is necessary to produce Q = 12. [15 marks]

b. Explain why a profit maximizing firm (in the short run) produces in stage II and not in sage III or stage I.[10 marks]

Question Two

- a. The following constrained maximization problem is for a consumer seeking to maximize utility (U) given her level of if income I=E100 and prices of X and Y are E5 and E10 respectively. The utility function is given by U = XY.
 - (i) Find the utility maximizing levels of X and Y

[10 marks]

(ii) Determine the maximum level of utility

[2 marks]

 In order to explain the nature of consumer choice, we started by making a series of assumptions about the typical consumer. State and explain these assumptions. [13 marks]

Question Three

a. Define Consumer Surplus

[3 marks]

b. For each of the following demand functions, find the consumer surplus when P = E4

(i) Q = 10 - P

[5 marks]

(ii) Q = 64P-2

[5 marks]

c. Briefly describe the functions of an economic system.

[12 marks]

Question Four

- a. Suppose you are the owner of a supermarket. Each week you offer some goods at "special prices". Would it make more sense to offer specials on goods with low price elasticity of demand or those with a high price elasticity of demand? Explain your choice [10 marks]
- b. Explain the difference between a normal good and an inferior good [6 marks]
- c. Use the concept of elasticity of demand to explain the difference between necessities, luxuries and inferior goods. [9 marks]

Question Five

a. Outline the "economic problem"

[12 marks]

Explain the difference in resource allocation between capitalist and socialist economic systems. Discuss the advantages of using either of these two economic systems in solving the "economic problem".

Question Six

- a. Explain and illustrate with diagrams the following concepts:
 - i) Monopolistic exploitation of a resource

[7 marks]

ii) Monopsonistic exploitation of a resource

[7 marks]

b. Explain and illustrate how price fixing may be used to counteract monopsonistic exploitation

[6 marks]

c. Differentiate between perfect and imperfect collusion.

[5 marks]