

ALUPE UNIVERSITA COLLEGE Bastion of Knowledge...

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OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

<u>FIRST</u> YEAR <u>FIRST</u> SEMESTER EX	AMINA	HON	
· ·	For exam	iner's U	se Only
FOR THE DEGREE OF BACHELOR	Question	I.E	E.E
OF APPLIED STATISTICS WITH			
COMPUTING			
SCHOOL: SCIENCES	EGE		
COURSE CODE: STA 110	CAT		
COURSE TITLE: INTRODUCTION TO	EXAM		
STATISTICAL ECONOMICS	TOTAL		
DATE: 11 th December, 2017 TIME: 2.00pm-5.00pm			
INSTRUCTION TO CANDIDATES: SEE INSIDE			
THIS PAPER CONSISTS OF 22 PRINTED PAGES	PLEASE T	URN C	VER
Insert the numbers of the questions you have answered	in the orde	er done	

STA 110 4YBZ12

INSTRUCTIONS TO CANDIDATES

 Write your Admission Number, Exam Card Number and Sign in the spaces provided at the bottom of each page of the Examination Booklet. DO NOT write your name anywhere in this booklet.

- 2. Write on both sides of the pages.
- 3. All rough work must be done in the Answer sheets and crossed through.
- 4. If supplementary pages are used, they must be fastened all together at the end of this Booklet. Supplementary pages should be used only after all the leaves in the booklet have been exhausted.
- 5. It is a serious examination offence to cheat or to have unauthorized materials including **MOBILE PHONES** (whether on or off) in the examination venue.
- 6. In no circumstances must Answer Booklet used or unused, be removed from the examination room by a candidate.
- 7. The Booklet is for **Examination use only** in a designated examination room. Unauthorized possession of the Answer sheets by a student or any other person constitutes an examination irregularity calling for stiff disciplinary action.
- 8. Do not pluck any page from this Booklet. Any extra/unused answer sheets should be returned to the **Examination Office.**
- 9. Candidates who come to examination room 30 minutes late will not be allowed to sit for the exam.
- 10. Candidates will not be allowed to leave the exam room once the exam commences.
- 11. Candidates are advised that importance is attached by examiners to accuracy and clarity of expression.
- 12. Committing any form of irregularity is prohibited and shall attract severe disciplinary action in accordance with Alupe University College Examination Regulations.

Student Admission No	.Exam Card No	Signature

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INSTRUCTION TO CANDIDATES

Answer **ALL** questions from section A and any **THREE** from section B.

Illustrate your answers with suitable diagrams wherever necessary.

Duration of the examination: 3 hours

SECTION A (31 MARKS)

QUESTION ONE (16 MARKS)

(a) Disc	uss three measures of National Income.	[3mks]
(b) List	and explain two different types of taxes.	[2mks]
(c) Writ	e short notes on the following terms in economics.	
i)	Scarcity and choice	[2mks]
ii)	Demand and supply	[2mks]
iii)	Utility and scope of economics	[2mks]
iv)	Abnormal demand curve	[2mks]
d) Discu	Abnormal demand curve ass any three effects of price control	[3mks]
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QUESTION TWO (15 MARKS)

- a) Define the following terms Average product, Marginal product and Total product. [3mks]
- b) Explain the usefulness of the concept of demand in decision making process. [3mks]
- c) Define the term economics. [2mks]
- d) Discuss three importance of economics. [3mks]
- e) Distinguish between macro-economics and micro-economics. [2mks]

SECTION B (31 MARKS)

Answer any THREE questions. All Questions carry equal marks

QUESTION THREE (13 MARKS)

a)	Discuss any six factors which determine changes in supply.	[6mks]
b)	I) Define the term production in economics.	[2mks]
	II) Discuss various stages of production with the help of a diagram.	[5mks]

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QUESTION FOUR (13 MARKS)

a) Explain any six importance's of micro-economics.

[6mks]

b) Suppose a two commodity market model the supply and demand function as.

$$Q_{S_1} = -3 + 4P_1$$

$$Q_{S_2} = -18 + 4P_2$$

$$Q_{D_1} = 4 - P_1 + \frac{1}{2}P_2$$

$$Q_{D_2} = 10 + P_1 - P_2$$

- i) Explain the relationship between the two commodities by giving valid economic reason. [3mks]
- ii) Using the functions provided, calculate the prices and quantities.

[4mks]

QUESTION FIVE (13 MARKS)

- a) Define and discuss with the aid of a diagram the concept of equilibrium with respect price and quantity.
- b) Given the following economic functions.

$$Q_a = 3P^2 - 4P$$

$$Q_b = 24 - P^2$$

Where P and Q are price and quantity respectively.

- i) Which of the two functions represent demand curve? Supply curve? And why? [3mks]
- ii) At what values of price and quantity is the market in equilibrium? [4mks]

QUESTION SIX (13 MARKS)

- a) Discuss any five obstacles of economic development in a country. [5mks]
- b) Explain the following concepts of national income.
 - i) Gross Domestic Product [2mks]
 - ii) Gross National Product [2mks]
 - iii) Per-Capita Income [2mks]

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QUESTION SEVEN (13 MARKS)

a) Assume a consumer spends all his income in the purchase of two goods x and y whose prices are 30 and 20 per unit. The consumer monthly income is Kshs. 12000. He is satisfied with the various combinations of x and y but prefers to spend his income in equal proportion on the commodities at a ratio of 1:1 to maintain his level of satisfaction.

i) Using clearly labeled diagram show the relevant budget line in difference curve indicating the equilibrium position of the consumer. [4mks]

ii) What is the effect on increase of consumer income from 12000 to 24000 per month?

Explain the income and substitution effect of change in the price of X and assuming that commodity X is **normal good** and an **inferior good**. [3mks]

b) Discuss any three types of tax in Kenya. [3mks]



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