



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

University Examination 2010

THIRD YEAR/FIRST SEMESTER EXAMINATION FOR THE DEGREE IN BACHELOR OF SCIENCE IN CIVIL ENGINEERING

ECE 2308: TRANSPORTATION PLANNING DEVELOPMENT (TPD)

SERIES: APRIL/MAY 2010

TIME: 2 HOURS

Instructions:

Attempt Question **One** and any other **TWO** questions. The total mark is 70 marks.

QUESTION ONE

(a)	Define the following		
	(i) (ii)	Transportation engineering Traffic engineering	(6 marks) (6 marks)
(b)	An a parti The o by: when sold Dete: sold	irline company has determined that the price of a seat on a cular route can be represented by the expression; p = 230 = 0.06n. demand for this route by air has also been found to be express n = 9000 - 15p, re, p is the price in Kenya shillings, and n is the number of seat per day. rmine the equilibrium price charged and the number of seats per day.	sed ats (18 marks)

QUESTION TWO

(a) Describe **5** typical negative environmental impacts of the construction of a road. (10 marks)

(b) State and name **6** transportation modes in use in Mombasa town. (10 marks)

QUESTION THREE

Illustrate the typical land use/Transportation cycle and briefly describe the relationship of the cycle elements. (20 marks)

QUESTION FOUR

- (a) State six (**6**) categories of human behavior that are affected by transportation. (10 marks)
- (b) State the land use location theory equation and describe all the equation elements. (10 marks)