



TECHNICAL UNIVERSITY OF MOMBASA
**Faculty of Engineering &
Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR DECREE IN:

BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCE)

ECE 2308: TRANSPORTATION PLANNING & DEVELOPMENT

END OF SEMESTER EXAMINATION

SERIES: APRIL 2015

TIME ALLOWED: 3 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Pocket Calculator*

This paper consists of **SEVEN** questions in **TWO** sections **A & B**. Section **A** is compulsory and contains **25 marks**. Section **B** has **FIVE** questions. Attempt any **THREE**, each having **15 marks**

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Section A

Question One (Compulsory)

Discuss the following statements:

- a) “The unique purpose of transportation is overcome space” **(8 marks)**
- b) “ The specific purpose of transportation is to fulfill a demand for mobility” **(5 marks)**

Question Two

Discuss why the following conditions of any transportation system would justify the need to conduct transportation planning.

- a) Poor quality of transport server (6 marks)
- b) In appropriate modal split (6 marks)

Section B

Question Three

To the effective, the transport planning process should be dynamic. Discuss (15 marks)

Question Four

How do we classify road systems (15 marks)

Question Five

How do the following factor influence the location of route.

- a) Proper drawings
- b) Availability of building materials
- c) Availability of adequate land for the route facility

Question Six

Discuss the key features of eth technical aspects of the route location report (6 marks)

Question Seven

There is a general consensus that transport system shapes land use, and that land use shapes transport system. Bearing this in mind, discuss with relevant examples in this relationship differential land use generate trips which and call for varying transportation needs (15 marks)