TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

TRANSPORT PLANNING AND DEVELOPMENT

SERIES - NOVEMBER / DECEMBER

TIME 2 HOURS

INSTRUCTIONS TO CANDIDATES:-

You should have the following for this examination:-

- 1. Pocket calculator
- 2. Answer booklet

This paper consists of five questions in two sections A and B.

Answer question 1 compulsory and any other two questions in section b.

Maximum marks for each part of the question are as shown below.

This paper consist of two printed page

SECTION A: COMPULSORY

1.	(a) Na	me and explain the three main objectives of public transport	ation (10 marks)	
	(b) Ex	plain the five steps are followed in a rational transport plann	ing process. (10	
	marks			
	(c) Par	(c) Paratransits are low capacity vehicles commonly used in Kenya roads for passenger		
	transp	transport. Name and explain them. (10 marks)		
	SECTION B ANSWER ANY TWO QUESTIONS			
2.	(a) Wi	(a) With the aid of a sketch explain bundling as used in public transportation. (10 marks)		
	(b) In	(b) In relation to transportation planning explain the following :-		
	i.	Land use analysis		
	ii.	Economic analysis		
	iii.	Financial analysis	(10 marks)	
3.	Descri	Describe the classification of public transit system in relation to the following:-		
	i.	Level of service		
	ii.	Type of right of way		
	iii.	Transport function		
	iv.	Type of service modes	(20 marks)	

- 4. (a) Explain the following trip generation modeling approaches and state two merits and two demerits of each approach:
 - i. Category analysis
 - ii. Regression analysis (10 marks)
- 5. Name and explain the measures that can be used by transport authorities to minimize accidents on Kenyan roads. (20 marks)