

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING

BACHELOR OF SCIENCE IN ENGINEERING

TRANSPORT PLANNING AND DEVELOPMENT

SERIES.....

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:-

- Pocket calculator
- Answer booklet

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

Answer question 1 (Compulsory) and any other two question in section B

Maximum marks of each part of a question are as shown

This paper consists of ..... Printed pages

## **SECTION A: COMPULSORY**

1 (a) Explain in details the following data collection techniques used in traffic studies:-

- (i) License plate
- (ii) Post card
- (iii) Lights only
- (iv) Home inter

**(20 marks )**

b) Briefly describe how the following are affected by transportation:-

- (i) Air quality
- (ii) Global climatic change
- (iii) Waste disposal
- (iv) Loss of living space

**(10marks)**

## **SECTION B: Answer any two question from section B**

2(a) With the aid of a model explain transport planning **(15 marks)**

(b) Transportation trips are classified into three categories. Briefly describe the three categories

**(5 marks)**

3 (a) There are two types of planning in transportation. Name and explain them **(10 marks)**

(b) With the aid of a flow chart demonstrate an urban planning model **(20marks)**

4. There are four methods used to assign trips in transport networks. Name and explain them.

**(20marks)**

5. Describe the evolution of transportation

**(20marks)**