



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF PROPERTY STUDIES AND URBAN DESIGN

TRANSPORTATION PLANNING AND MANAGEMENT

BUD 6108

AUGUST 2024

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: J.Mayisa

INSTRUCTIONS

- 1. Answer any three (3) questions and Section B is compulsory.*
- 2. Each question carries 25 marks*

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5	25
6	25
TOTAL	100

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SECTION A

Question 1

Describe any two terms/ concepts as they are used in transportation planning and management:

- | | |
|------------------------------------|--------|
| i. Transit Oriented Design (T.O.D) | (12.5) |
| ii. Transport Management System | (12.5) |
| iii. Transportation tool box | (12.5) |
| iv. Pedestrianisation | (12.5) |
| v. Transport Policy | (12.5) |
- [25]

Question 2

Choosing any five (5) urban design principles and explain the considerations that can effectively aid in the attainment of a sustainable public transportation system. [25]

Question 3

With reference to any urban area, examine the potential of the adoption of the Intelligent Transport Systems (ITS). [25]

Question 4

Discuss any transport –related challenge in a city of your choice showing how inclusive transport planning and management strategies can used. [25]

Question 5

Discuss the gaps in policy given the ever-dynamic changes of motorized and non-motorized traffic needs in Zimbabwe. [25]

SECTION B

Question 6

Critique the notion that '*the 4 step transportation modelling theory is a panacea in addressing issues of future travel patterns and forecasting demand given the rapid urbanisation taking place in cities*'. [25]