

THE NATIONAL UNIVERSITY OF LESOTHO
BA-URP EXAMINATION
GES3556: TRANSPORT AND LAND-USE

MAY 2023

TOTAL MARKS:100

TIME:3 HOURS

INSTRUCTIONS:

- **Answer any four (4) questions**
 - **Where befitting, illustrate answers with relevant diagrams.**
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QUESTION 1

- a) Briefly explain transport networks. [5]
- b) Breakdown the structural components of a transport network with the help of a diagram. [10]
- c) From (a) above select any five components and write a short note to define each. [10]
- [25]**

QUESTION 2

Outline the importance of gravity model and graph theory in transport and land-use planning. [25]

QUESTION 3

How did Industrial revolution and transport affect the land use activities and thereafter city form? Elaborate your answer with the use of any model of your choice. [25]

QUESTION 4

Transport policy has been developed to prevent or control the inherent monopolistic tendency of many transport modes. Discuss and cite relevant examples where necessary. [25]

QUESTION 5

- a) Mention and explain two policy instruments that need direct financial involvement of government in transportation. [4]
- b) Briefly explain how governments use public ownership as a mechanism to undertake a transport policy. [6]
- c) Mention three types of regulations in transportation. [3]
- d) Give a brief explanation for each of the regulations stipulated in (c) above. [12]

[25] 1

QUESTION 6

In order to be in line with the sustainable solutions and development that the world has resolved to conform to, the ministry of transport has decided to adopt Transit Oriented Development (TOD) through Bus Rapid Transit (BRT) system in order to solve the impending transport problems faced by the primate city. Advice accordingly through the revisit of both the positive and negative gains tied with such a solution.

[25]