

THE NATIONAL UNIVERSITY OF LESOTHO

BA-URP SUPPLEMENTARY EXAMINATIONS
GES3556: TRANSPORT AND LAND USE

AUGUSTS 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

- Mention and draw the parameters that are included in Alfred's Location triangle. [15]
- Define Weber's Material Index and explain how it helps in the choice of the ideal location of a firm. [10]

[25]

QUESTION 2

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

[25]

QUESTION 3

Discuss how the developments in transport have affected the land use activities and thereafter city form. [25]

QUESTION 4

It is essential that governments minimize if not completely eliminate the monopolistic tendency of any transport mode through policy. 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]

QUESTION 6

Explain and show with diagrams where befitting, how graph theory uses vertices and edges to display the relationship between land-use activities. [25]