



NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE, PLANNING AND CONSTRUCTION

QUALIFICATION: BACHELOR OF TOWN AND REGIONAL PLANNING	
QUALIFICATION CODE: 07BTAR	NQF LEVEL: 6
COURSE CODE: CCS611S	COURSE NAME: CRITICAL CITY STRUCTURE AND COMPONENTS
DATE: JUNE 2023	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER

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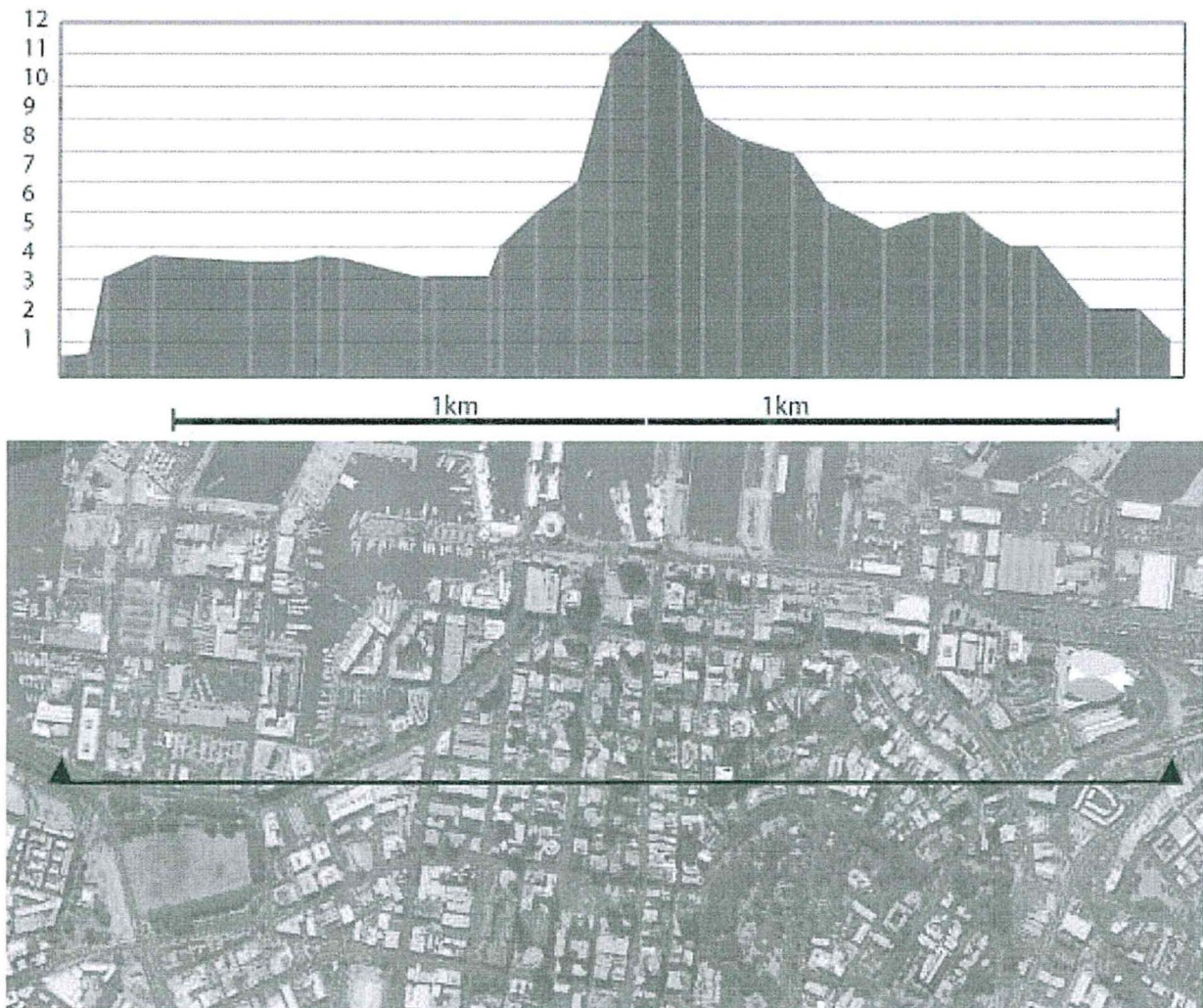
INSTRUCTIONS

1. Answer ALL the questions.
2. Questions can be answered in any sequence.
3. Read all the questions carefully before answering.
4. Number the answers clearly.

THIS QUESTION PAPER CONSISTS OF 7 PAGES (Including this front page)

Question 1

The figure below illustrates the land values in a cross section of a city's Central Business District.



Provide a detail explanation of all the tools and methods available to town planners if given the assignment to determine the boundaries of a city's Central Business District.

[10]

Question 2

Explain the fundamental recommendations made by Ms Adriana Allen on how the peri-urban area could be planned and managed more effectively compared to the traditional planning interventions.

[10]

Question 3

The illustration above (as used extensively in the lecturers) illustrates a mixed use, integrated urban residential neighbourhood. Explain how a residential neighbourhood should be designed to achieve social and functional integration, as being one of the fundamental planning goals of modern-day town planning theory.

[6]

Question 4

According to Jan Gehl, in his book *Living between Buildings*, there is a unique relationship between the physical quality of the environment and the type and number of activities the population will embark upon. This relationship is important for the provision of Public Facilities and Public Open Spaces. Draw a sketch describing this abovementioned relationship in detail.

[5]

Question 5

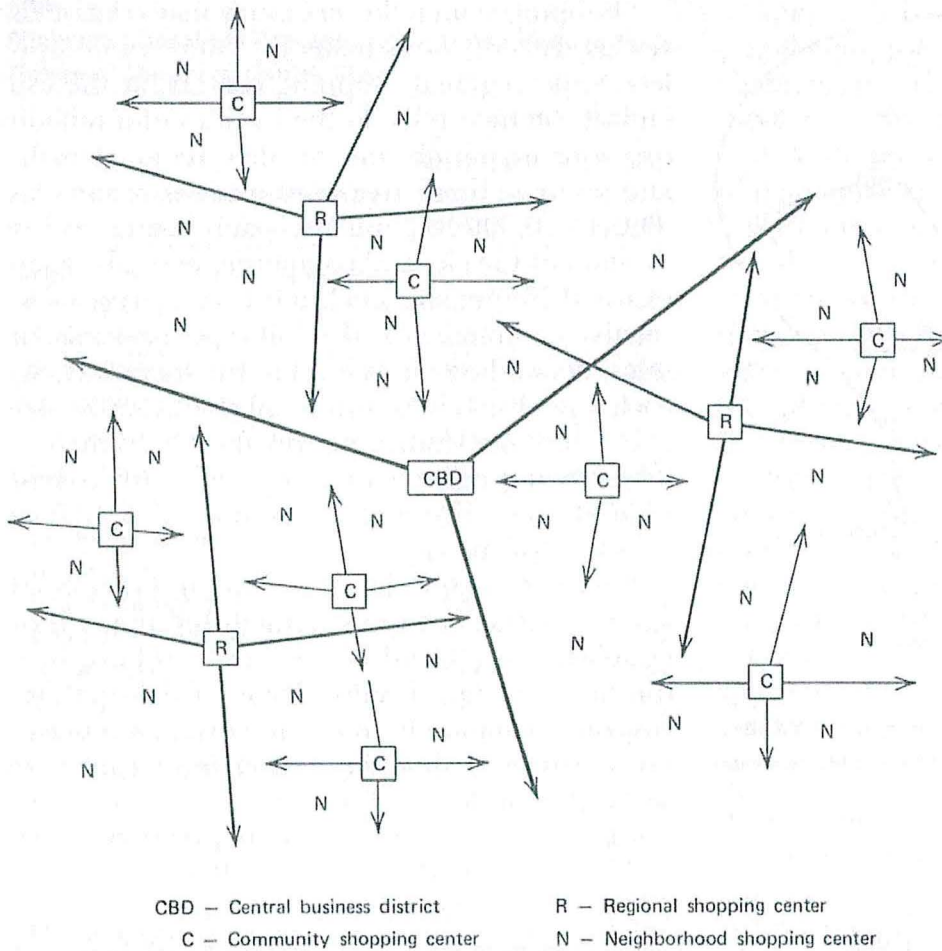


Figure 16-4 Spatial expression of the retail center hierarchy, after Berry. Length of arrows indicates composite ranges of goods and services at each level.

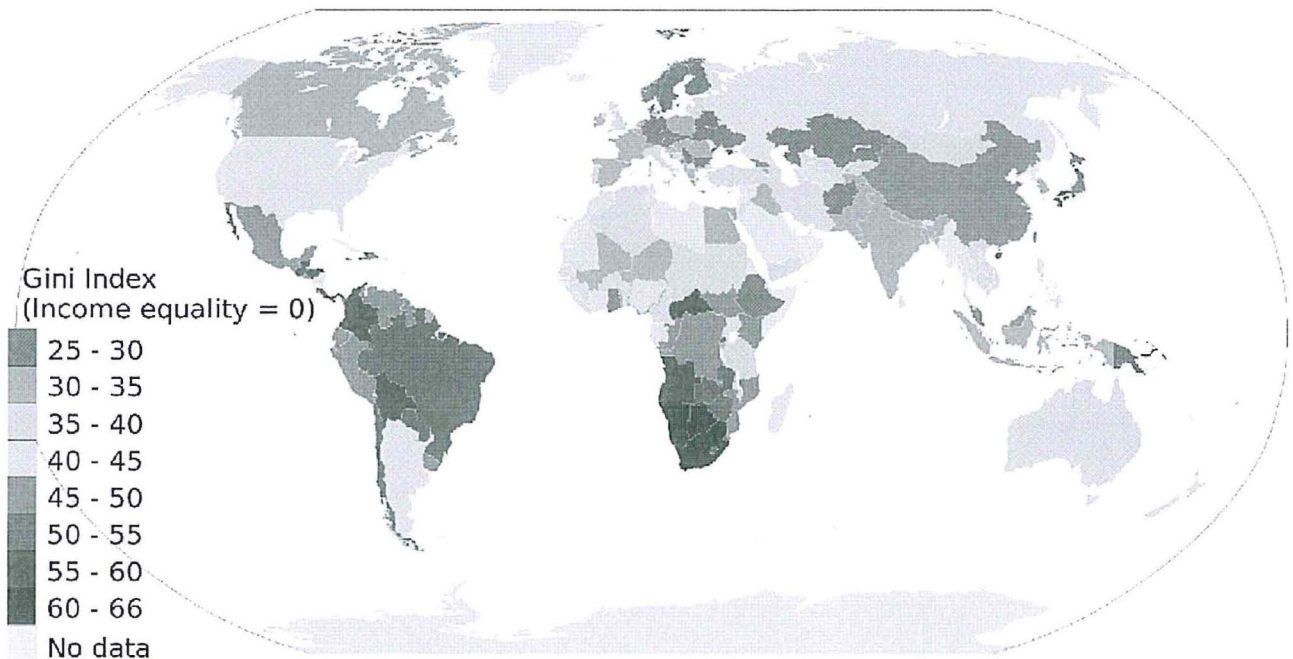
The illustration above highlights the spatial distribution of retail commercial centres. What facts can you state that will explain the number of the various commercial shopping centres and their spatial distribution.

[6]

Question 6

Urban residential neighbourhoods are experiencing an ever-increasing number of companies establishing their company offices within residential neighbourhoods. Provide an explanation of why this influx occurs.

[6]

Question 7

The above illustration indicates that Namibia, Botswana and South Africa have Gini Indexes between 60 and 66.

- (a) Provide a definition of the Gini Index (2)
- (b) Explain the relationship between Namibia's Gini Index and the migration of people from the rural to Namibia's urban centres. (3)
- [5]

Question 8

Provide a detailed description (not a sketch) of the Lewis Structural Change Model as an explanation of the rural urban migration patterns in Namibia.

[5]

Question 9

Provide a description of the analytical model town planners use to predict the outward growth of cities and residential neighbourhoods in the future for a specific city.

[5]

Question 10

As a local authority town planner involved in the compilation of a structure plan, wherein future bulk land uses are allocated within the local authority's jurisdiction area, you are required to allocate land for a future industrial extension to the town. Provide an explanation of all the principles you will investigate to select the ideal site for the future industrial area.

[12]

Question 11

Describe the locational factors that an industrial company will consider when an "Inter City" locality must be selected for this company.

[6]

Question 12

Various underlying economical and spatial processes influence the structural changes that occur in our urban settlements. Can you explain what happens when the following processes occur?

- a) Centripetal vs Centrifugal forces (2)
- b) Concentration vs Dilution (2)
- c) Centralisation vs Decentralisation (2)
- d) Deterioration vs Renewal (2)

[8]

Question 13

Integrated Development Plans (IDP's) are used to manage and plans structural changes to an urban area due to expansion and growth. Provide a list of steps involved in the compilation of an Integrated Development Plan for a local authority council.

[8]

Question 14

- a) Provide a detailed graph of the “Rent-Bid” curve for the various land uses in a city. (4)
- b) Provide an explanation on how this phenomenon / theory influences the physical urban structure. (4)
- [8]

END**TOTAL [100]**