



**NAMI BIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES

DEPARTMENT OF ARCHITECTURE AND SPATIAL PLANNING

QUALIFICATION: Bachelor of Town and Regional Planning (07BTAR)	
QUALIFICATION CODE: 07BTAR	LEVEL: 6 CREDITS: 10
COURSE CODE: CCS611S	COURSE NAME: Critical City Structure and Components
SESSION: July 2019	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100 TOTAL

SECOND OPPORTUNITY / SUPPLEMENTARY EXAMINATION QUESTION PAPER	
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INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL the questions.2. Write clearly and neatly.3. Number the answers clearly.4. Use sketches to improve your answers.

PERMISSIBLE MATERIALS

1. Calculator, ruler, pencil and eraser

THIS QUESTION PAPER CONSISTS OF 5 PAGES (Including this front page)

Question 1

You, as a Town and Regional Planner, are invited by the Ministry of Urban and Rural Development to lead a workshop discussion on the possible use of Integrated Development Plans in our Villages, Towns and Municipalities.

- (a) Provide a breakdown of the general steps or procedures executed to compile an Integrated Development plan (8)
- (b) Describe the benefits a Local Authority could derive from implementing an Integrated Development Plan in its area of jurisdiction. (8)

[16]

Question 2

The occurrence of a “Locational Lifecycle” of an industry is one of the dynamic factors leading to the complex locational patterns of our industrial areas. In a table format, with illustrative sketches, highlight the data you would use to determine in which phase of the lifecycle an industrial development is.

[10]

Question 3

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 4

Functional linkages exist between commercial activities within a City’s Central Business District. Provide sketches to illustrate these linkages.

[8]

Question 5

Mixed use and compact city developments can be enhanced through the provision of clustered public facilities and institutional developments. Motivate why this clustering of public facilities is practised by planners worldwide.

[9]

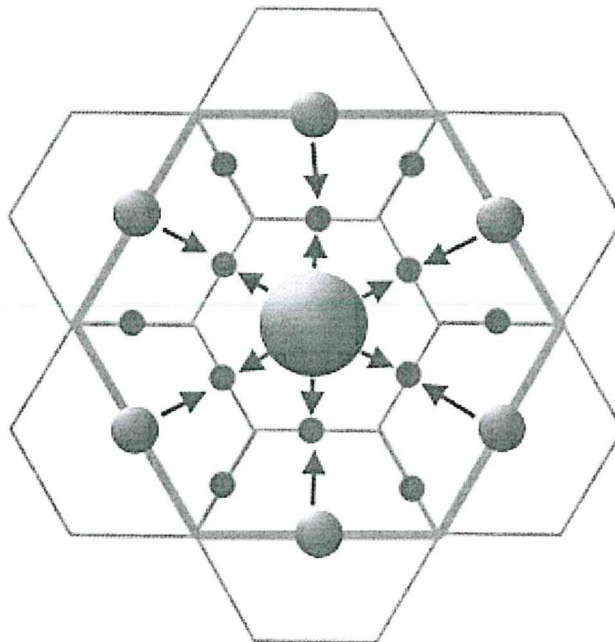
Question 6

According to Adriana Allen in her research on the Peri Urban Areas of cities she highlights the 3 classical planning perspective planners use to control and manage the Peri Urban Area. Provide a detail description of these planning perspectives and the subsequent areas of intervention. (Provide answer in a table format)

[10]

Question 7

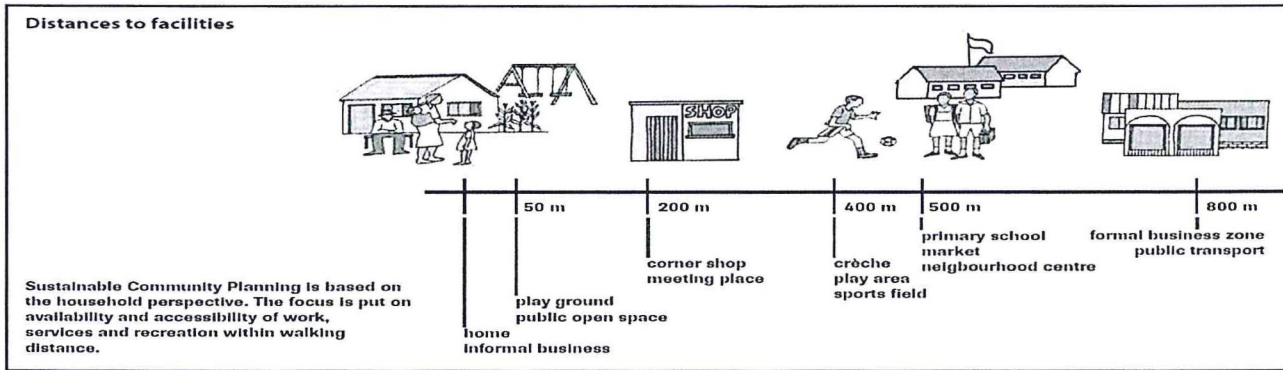
Provide an explanation of the K4 – transportation principle of Walter Christaller's Central Place Theory, as illustrated below.



[6]

Question 8

One of the key design principles of sustainable community units or residential neighbourhoods is the level of walkability, as illustrated below. What other key design guidelines would you use to measure the level of sustainability of a residential community unit / neighbourhood?



[7]

Question 9

“Counter – urbanisation” is one of the subsequent re-actions that takes place due to large volumes of people moving to urban settlement via the process of rural urban migration. Describe the negative effects of counter – urbanisation on the urban settlements where it occurs.

[5]

Question 10

How you would calculate and subsequently demarcate the internal population growth of residential neighbourhoods over time for a specific city.

[5]

Question 11

The 2001 census data showed that only 59% of people living in Namibia’s urban areas were born in urban areas, while the remaining 41% migrated to urban areas away from rural areas. One of the possible models and theories to explain this migration is the Lewis Structural Change Model.

Apply this model to the Namibian economy and subsequent migration patterns and trends.

[8]

Question 12

- 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]**

TOTAL: 100 marks

END