



**NAMIBIA UNIVERSITY**  
OF SCIENCE AND TECHNOLOGY

**FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT**

**DEPARTMENT OF ARCHITECTURE, PLANNING AND CONSTRUCTION**

<b>QUALIFICATION:</b> BACHELOR OF TOWN AND REGIONAL PLANNING	
<b>QUALIFICATION CODE:</b> 07BTAR	<b>NQF LEVEL:</b> 7
<b>COURSE CODE:</b> SSP720S	<b>COURSE NAME:</b> SUSTAINABLE SETTLEMENT PLANNING
<b>SESSION:</b> DECEMBER 2025	<b>PAPER:</b> THEORY
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

<b>SECOND / SUPPLEMENTARY OPPORTUNITY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER(S)</b>	Ms. GB van Rooi
<b>MODERATOR</b>	Ms. H.T.S Kevanhu

<b>NOTES:</b>
1) Read the entire question paper before answering the questions 2) Ensure your number your answers correctly 3) Please write clearly and legibly 4) You must answer all questions 5) Make sure your Student Number is on the Examination Book(s)

**THE QUESTION PAPER CONSISTS OF 5 PAGES (including this front page).**

Question 1

The Sustainable Development Goal No. 11 (SDG.11) calls on nation states to “Make cities and human settlements inclusive, safe, resilient and sustainable”. A Local Authority has appointed you as a young urban planner to integrate SDG. 11 into an urban policy.

Formulate the main policy directives based on SDG. 11 that you would integrate into the urban policy.

[10]

Question 2

Urban Planning and Environmental Management are intrinsically intertwined. However, there are a few urban planners that do not understand the value of environmental management.

Prepare a memorandum to the Namibia Institute of Town and Regional Planners advising its members on the principles of environmental management as contained in the Environmental Management Act.

[10]

Question 3

Windhoek is faced by the risk of extreme heat, water shortages and flash floods because of climate change. The city thus could adopt the Green Infrastructure planning approach to guide mitigation and adaptation measures.

- (a) What do you as an urban planner have to do to bring about an urban forest in Windhoek? (2)

The impacts of sea level rise could have catastrophic effects on the Walvis Bay built environment, as it could cause extreme damage or destruction of property, and it could also lead to the loss of human life.

It is therefore fundamental that Walvis Bay Municipality must adopt a comprehensive policy or regulations that could address the implications of sea level rise.

- (b) Advise the Walvis Bay Municipality on the most appropriate soft engineering approaches it could adopt to the address the challenges brought about by sea level rise. (8)

[10]

Question 4

Even though it has been proven that a Compact city is the most sustainable urban form, there are a significant number of people who are strongly opposed to the adoption of such an urban development model.

Deliver a Critique of the Compact City Model.

[10]

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Question 5

The objectives of the Namibian Urban and Regional Planning Act, Act No. 5 of 2018 inter alia states that (urban planning) ought to pursue sustainable and efficient use of land.

- (a) Convince the general public that the implementation of the Act aides in planning sustainable urban settlements in Namibia? (5)
- (b) Elaborate on the principles contained within the Urban & Regional Planning Act that relates to Sustainable Development. (5)

[10]

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Question 6

The purpose of The Limits to Growth book published in 1972 was not to make specific predictions, but to explore how exponential growth interacts with finite resources.

- (a) Provide an overview of the messages contained in the conclusion of the book. (5)

Namibia's Gross Domestic Product is highly dependent on its Blue Economy.

- (b) Explain to a potential Blue Economy entrepreneur what the scope of the blue economy in Namibia is. (5)

[10]

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Question 7

The younger crop of urban planners is increasingly applying New Urbanist principles in the design of townships. New Urbanist principles implies that sustainable transportation systems must be brought about and strongly advocates for building complete streets.

How would you advocate for the design and construction of complete streets within the first township that you will design?

[10]

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Question 8

Climate change is one of the most pressing issues of our time, threatening ecosystems, economies, and communities worldwide. At the same time, humankind is on the precipice of a big data revolution, ushered in by AI technology.

Big data refers to the vast volumes of data generated from various sources at high velocity and with great variety. It encompasses everything from satellite imagery and sensor data to social media activity and weather forecasts. Analysing and interpreting this data is crucial for understanding and addressing climate change.

- (a) Point out how the 'Digital Divide' concept may hamper the City of Windhoek's quest to become a smart city. (4)
- (b) Share the main points that you would include in a letter to Dr. Inge Zaamwani-Kamwi, the Minister of Agriculture, Fisheries, Water and Land Reform to convince her of the use of big data to support sustainable agricultural practices? (4)
- (c) Share the main points that you would include in a letter to Minister of Environment and Tourism Namibia, Hon. Minister Indileni Daniel, to convince her of the use of big data to enhancing conservation efforts. (2)

[10]

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Question 9

Urban Planners that are concerned with the sustainability of the Okahandja's CBD highlighted of urban blight as a major urban development challenge within the area.

- (a) Speculate on the factors that lead to the urban blight evident in the town's CBD. (5)

The Regeneration of the Okahandja CBD must be informed by a Zoning Scheme that accommodates Mixed Land Use as a zoning.

- (b) What could the Okahandja urban planners learn from the draft Windhoek Zoning Scheme of 2024 to inform a similar revision of the Okahandja Zoning Scheme. (5)

[10]

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Question 10

A form-based code is a land development regulation that uses physical form and building design as its organizing principle, prioritizing how a building relates to the street and public realm over a strict separation of land uses.

- (a) Provide an advisory note to the City of Windhoek that would convince the entity to adopt a Form Based Code to guide development within the Central Business District of Windhoek. (5)

The Transect arranges in useful order the elements of urbanism by classifying them from rural to urban. Every urban element finds a place within its continuum.

- (b) Explain the concept of the Rural-to-Urban Transect in the context of urban planning.? (5)

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TOTAL = 100