



PAMIBIA 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: DPS610S	COURSE NAME: DEMOGRAPHY AND POPULATION STUDIES
DATE: JULY 2025	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY/ SUPPLEMENTARY EXAMINATION QUESTION PAPER	
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NOTES:
<ol style="list-style-type: none">1. Read the entire question paper before answering the questions.2. You must answer all questions.3. Please number your answers correctly in an orderly manner.4. Please write clearly and legibly.5. Ensure your Student Number is on the Examination Book(s).

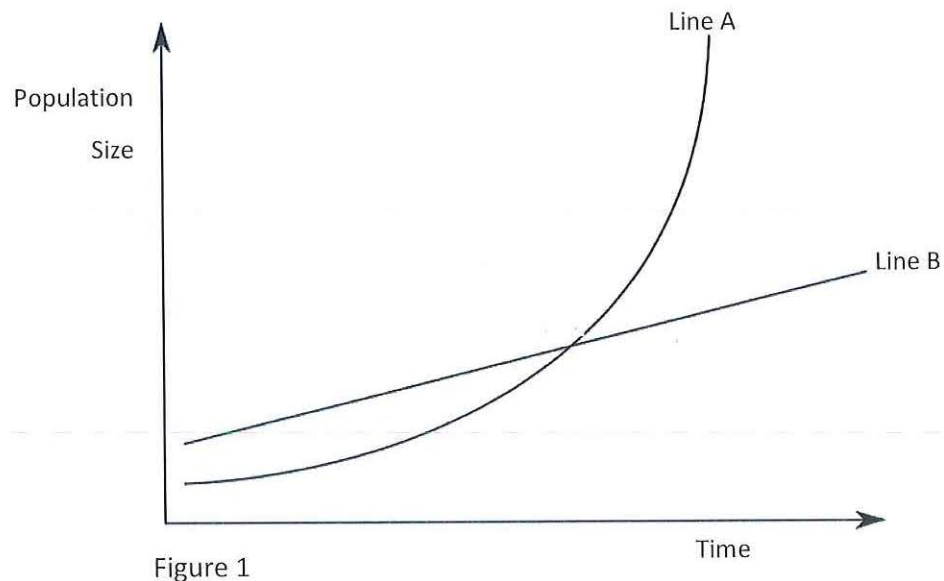
THIS QUESTION PAPER CONSISTS OF 4 PAGES (Including this front page)

Question 1

- (a) A way of looking at changes in population composition is through population pyramids. Differentiate between constrictive and expansive population pyramids by providing pyramid sketches. (10)
- (b) Census and surveys are two sources of demographic data. Formulate a table comparing census to surveys. (10)
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Question 2

- (a) Trend extrapolation methods are powerful straightforward tools for projecting populations. Identify the population projection extrapolation methods and associated formulas, represented by Lines A and B in Figure 1 below. (4)



- (b) The population of Namibia for 2016 and 2023 is listed in the table below:

Table 1: Namibia Population: 2016 & 2023

Year	Population
2016	2,324,388
2023	3,022,401

Assuming a constant growth rate and using the figures in Table 1 above, calculate the annual

growth rate in percentage using the most preferred method of trend extrapolation. Please show the formula and all calculation steps and round of your answers to two decimal points.

(5)

(c) Using the most preferred trend extrapolation projection method and the data in Table 1 above, find out what Namibia's population will be in 2030. Round off to the nearest whole number.

(5)

(d) Population projection can be classified into two classes.

(i) Identify the projection class that urban planners are advised not to rely on.

(1)

(ii) Explain briefly, in two sentences, why urban planners are not encouraged to use the projection class you identified in Question 2(c)(i).

(2)

(e) The central government is offering grants for one public bus for each growing settlement, with an estimated population of 10,000 or more by 2030. You have been instructed by your mayor to estimate the number of people who will be in your settlement in 2030, in order to enable your settlement to apply for that grant. Based on your estimation, the population of your settlement will decrease from 2,500 to 1,500 in 2030.

The mayor was not happy with your projections, and subsequently informed you that you should change the population projections to reflect that your settlement will have over 10,000 people by 2030; in order to secure the central government grant for the public bus. The mayor further threatened that he will bring you down through your Chief Executive Officer if you did not change the population projections.

(i) From an ethical approach, indicate if you will decide to change or not change the population projection figures.

(1)

(ii) Motivate the decision you provided in Question 2(d)(i), in seven brief statements.

(7)

(f) A town planner wishes to project the population of a town for the next decade, and is not sure of what projection method to use. Outline seven factors that can affect the town planner's choice of population projection methods.

(7)

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Question 3

- (a) It is important to analyse the population or demographic profile of an area during the planning process. In seven brief statements, explain why it is essential for urban planners in the public sector to consider population analyses. (7)
- (b) Businesses use population and demographic data to identify profitable locations for goods and services. Pinpoint three ways through which the private sector can identify profitable locations for goods and services. (3)
- (c) You have been appointed as a Public Health Planner at the Ministry of Health and Social Services. Discuss the steps that you will follow to ensure that health facilities are equitably allocated in Region X. (10)
- (d) Data forecasts, including population projections, are used in the planning process and in the location of various public facilities. Explain briefly why it is difficult to investigate professional ethics in planning data forecasts. (4)
- [24]
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Question 4

- (a) According to a certain population theory, as technology advances in various fields, birth and death rates shift, directly impacting the population numbers and growth rates. Demonstrate this theory in a graphic format. (13)
- (b) One theorist analysed the prevailing situation in different countries, as part of his essay titled "An Essay on the Principle of Populations as it affects the Future Improvement of Society." Critique, in seven (7) statements, the theorist's perspectives on population. (7)
- (c) International migration can be explained through various theories. Identify four (4) theories that explain international migration. (4)
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TOTAL MARKS = 100