

NAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

DEPARTMENT OF MATHEMATICS AND STATISTICS

QUALIFICATION: Bachelor of science in Applied Mathematics and Statistics		
QUALIFICATION CODE: 07BSAM	LEVEL: 6	
COURSE CODE: DEM602S	COURSE NAME: DEMOGRAPHY	
SESSION: JANUARY 2023	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 80	

OND OPPORTUNITY EXAMINATION QUESTION PAPER
Mr. ROUX, A.J
Mr SWARTZ, J

	INSTRUCTIONS
1.	Answer ALL the questions in the booklet provided.
2.	Show clearly all the steps used in the calculations.
3. All written work must be done in blue or black ink and sketches n	
	be done in pencil.

PERMISSIBLE MATERIALS

1. Non-programmable calculator without a cover.

THIS QUESTION PAPER CONSISTS OF 3 PAGES (Including this front page)

QUESTION 1 [10]

The demographic perspective influences the way people understand and interpret questions involving populations. Briefly discuss any **one** of the three commonly used (the Malthusian perspective, the Demographic Transition model, and the Marxist perspective) demographic perspectives.

QUESTION 2 [30]

2.1) Define the following terminologies

2.1.1) Demography	(2)
2.1.2) Population composition	(2)
2.1.3) Natural population growth	(2)
2.1.4) Life expectancy	(2)
2.1.5) Population pyramid	(2)

2.2) Distinguish between

2.3) Name and briefly discuss (<u>any four</u>) of the most commonly used indices for measuring mortality. (4 x 3 = 12)

QUESTION 3 [17]

- 3.1) Define the term "Nuptiality" in demography (3)
- 3.2) Distinguish between "<u>age/sex specific</u>" marriage rate and "<u>order-specific</u>" marriage rate." (2 x 2 = 4)
- 3.3) The total number of marriages (M = 575 246) and the midyear population (P = 2 052 460) as well as the midyear population of marriageable persons (P_{15+} = 1 505 684) are given. Use c = 1 000.
 - 3.3.1) Calculate and interpret the crude marriage rate for this population (5)
 - 3.3.2) Calculate and interpret the general marriage rate for this population(5)

QUESTION 4 [23]

- 4.1) Provide three sources of data on international and internal migration. (3)
- 4.2) State and explain all the variables in an equation which can be used to calculate any "Age-Specific" migration rate. (5)
- 4.3) According to Petersen (1958, 1975) typology distinction was made between five types of migration. Provide and describe these five types of migration, and give relevant example to illustrate the concept. $(3 \times 5 = 15)$

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