

UNIVERSITY OF ESWATINI
DEPARTMENT OF STATISTICS AND DEMOGRAPHY

RESIT EXAMINATION PAPER 2019

TITLE OF PAPER : DEMOGRAPHY OF ESWATINI

COURSE CODE : DEM 312/302

TIME ALLOWED : TWO (2) HOURS

INSTRUCTION : 1. ANSWER ANY THREE (3) QUESTIONS.
2. ALL QUESTIONS ARE WORTH 25 MARKS EACH

REQUIREMENT : SCIENTIFIC CALCULATOR

THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATOR

Question 1**[25 marks]**

- a. Applying the demographic transition theory explain the factors that are responsible for population change in Eswatini. Ensure to make reference to the history of census enumeration in Eswatini. [12]

Table 1.1: Population Distribution by Age and Sex, Eswatini, 2017

Age group	Population 2017	Males	Females
0-4	130208	65218	64990
5-9	129828	65109	64719
10-14	127437	63783	63654
15-19	120 168	60955	59213
20-24	106 516	52280	54236
25-29	96 739	46551	50188
30-34	86 370	42148	44222
35-39	66 981	33443	33538
40-44	49 696	24428	25268
45-49	41 278	19194	22084
50-54	32 818	14094	18724
55-59	27 816	12062	15754
60-64	22869	10037	12810
65-69	17359	7322	10059
70-74	13254	4998	8256
75-80	9148	3484	5664
80+	9034	2846	6193
Not stated	5714	3137	2577
Total	1093238	531111	562127

- b. Using table 1.1 above answer the following questions:

- i. Calculate and interpret any four measures that can be used to describe the age sex composition for Eswatini [8]
- ii. Based on your results above discuss the socio-economic implications of the Eswatini age-sex structure [5]

Question 2**[25 marks]**

- a. Describe the general pattern of HIV prevalence in the Eswatini population by age and sex. [7]
- b. Discuss the differences in HIV prevalence by rural-urban residence and by regions [6]
- c. Discuss the socio-economic impact of HIV and AIDS in Eswatini. [12]

Question 3

- a. What are the factors that influence population distribution? [5]

Table 3.1: Population Distribution by Age and Sex, Eswatini, 2007-2019

Cohort Age 2007	Cohort age in 2017	Population in 2007 aged 5+	Population 2017	Forward survival ratios	Estimated survivors at end period	Estimated net migration by age at end of period
0-4	5-9	127859	129828	-----	-----	-----
5-9	10-14	136305	127437	-----	-----	-----
10-14	15-19	138229	120 168	-----	-----	-----
15-19	20-24	126696	106 516	-----	-----	-----
20-24	25-29	108733	96 739	-----	-----	-----
25-29	30-34	85530	86 370	-----	-----	-----
30-34	35-39	62376	66 981	-----	-----	-----
35-39	40-44	52247	49 696	-----	-----	-----
40-44	45-49	40402	41 278	-----	-----	-----
45-49	50-54	34754	32 818	-----	-----	-----
50-54	55-59	26908	27 816	-----	-----	-----
55-59	60+	21067	71669	-----	-----	-----
60+		56385		-----	-----	-----

- b. Based on the data in table 3.1 calculate:
- i. the census survival ratios and the forward survival method, calculate the age specific net inter census migration for Eswatini female population at ages 5-9 to 65+ in 2017. Assume that the population is closed to external migration. [15]
- iii. Under what circumstances can census survival ratios exceed 1? [2]
- iv. When is the reverse survival method most likely to produce estimates higher than those from the forward survival method? [3]

Question 4

[25 marks

- a. Explain the role of family planning in a reproductive health context [5]
- b. Discuss the trends and underlying determinants of fertility in Eswatini [20]