

UNIVERSITY OF SWAZILAND

DEPARTMENT OF STATISTICS AND DEMOGRAPHY

FINAL EXAMINATION PAPER

COURSE TITLE: POPULATION DYNAMICS

COURSE CODE: DEM 201

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

SPECIAL REQUIREMENTS: CALCULATOR

QUESTION 1

The Demographic Transition Theory has become obsolete (outdated) more-so now in the era of HIV/AIDS. Discuss fully the statement [25]

QUESTION 2

Thomas Malthus was undoubtedly one of the most outstanding Demography scholars of all times. He was, however, a bit short-sighted and crude in his theory "Principle of Population". Discuss his theory highlighting its flaws [25]

QUESTION 3

Fertility and Mortality decline in sub-Saharan Africa remain elusive partly due to a number of factors which are intertwined with the African way of life. Discuss the following, showing how they may have influenced fertility levels in Africa

Fertility - Marriage; Family system; Religion

Mortality - Family; Sex

[5 points each]

QUESTION 4

- a) What are the assumptions associated with the Forward Survival Ratio Method and the Reverse Survival Ratio Method of estimating Net Migration [10]
- b) Given the HhoHho Male Population for 1976 and 1986 respectively (attached) and the Census Survival Ratios for the same period, estimate net migration per age and the whole country (Male Population) [15]

QUESTION 5

Migration has had economic, social and demographic impact on both sending and receiving societies. Discuss fully the following:

- i) Remittances
- ii) Employment
- iii) Skill infusion
- iv) Age and Sex structure of population
- v) Fertility and Mortality

[25]

QUESTION 6

The emergence of urban areas in Developed Western Nations was due to development processes (Agricultural and Industrial Revolutions). In sub-Saharan Africa both the agricultural and Industrial revolutions have not taken place thus urban areas have exhibited all the undesirable side effects. Discuss within the context of the statement above the following:

- Pollution
- Natural Resource Utilisation
- Integration
- Employment
- Agriculture

[25]

HhOHhO MALE POPULATION 1976 AND 1986

AGE GROUP	SENSUS SURVIVAL RATIOS	MALE POPULATION 1976	MALE POPULATION 1986	NET MIGRATION
00-04		21 722	23 906	
05-09		20 534	22 008	
10-14	1.0200	18 568	21 803	
15-19	0.9788	15 541	18 963	
20-24	0.9345	14 144	16 163	
25-29	0.9676	14 049	15 113	
30-34	1.0048	13 295	14 233	
35-39	1.0029	13 424	13 823	
40-44	0.9998	12 553	13 054	
45-49	0.9957	12 412	13 005	
50-54	1.0055	11 518	12 276	
55-59	0.6807	11 277	11 590	
60-64	0.9128	11 060	11 131	
65-69	0.7962	8 718	8 821	
70-74	0.6143	6 570	6 678	
75-79	0.5481	5 489	5 444	
80+	0.8854	3 106	3 564	
TOTAL				