UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER
YEAR 2017

COURSE TITLE: COLLECTION AND ASSESSMENT OF DEMOGRAPHIC DATA

COURSE NUMBER: DEM 213

TIME ALLOWED: 2 (TWO) HOURS

INSTRUCTIONS: Answer ALL Questions in Section A and any 1 (one Question in Section B

SPECIAL REQUIREMENTS: CALCULATOR

SECTION A

Question 1

a) Using the attached data sheet calculate the Digit Preference Index
[15 points]

b) Using the attached data sheet calculate the Myers Index
[15 points]

Question 2

In the calculation of Age Ratios, the UN, Zelnik and Ramachandran methods may be used. Discuss fully these methods emphasizing the rationale for their formulation [20 points]

SECTION B

Question 3

a) Why is population data presented preferably in age groups rather than in single years? [6 points]

b) When detecting errors in data, internal consistency check can be used, then vertical and horizontal consistency checks employed. Explain the meaning of the statement [14 points]

Question 4

a) Given accurate Births (B), Deaths (D), Immigrants (I), Emigrants (E) and Population initial (P1) show how you can use the Balancing Equation to estimate the accuracy of a census count at a later date (P2)
[14 points]

b) What are Post Enumeration Surveys and how are they employed to help detect errors in data. [6 points]

Question 5

a) How do content and coverage errors overlap? [4 points]

b) Pre-coding may lead to errors. Using an example show how.
[4 points]

c) Using any one method explain what are moving average methods.
[12 points]

DATA SHEET

DIGIT	10-19	20-29	0-39	40-49	50-59	60-69	10-59	10-69	20-69
0	188 801	142 023	136 241	96 500	79 396	63 302			
1	115 176	81 261	40 385	23 133	17 196	8 333			
2	190 396	97 078	84 163	52 998	33 161	15 594			
3	135 373	71 481	38 831	27 442	16 927	8 907			
4	145 076	92 147	52 062	25 969	26 575	11 604			
5	157 714	118 513	96 661	94 793	36 053	36 522			
6	137 661	82 397	57 983	30 616	26 807	7 490			
7	102 437	81 995	39 741	23 999	13 647	7 988			
8	146 944	94 780	54 478	43 084	19 766	12 457			
9	91 843	55 900	33 490	24 727	10 811	6 049			