## UNIVERSITY OF SWAZILAND

## FINAL EXAMINATION PAPER YEAR 2007

**COURSE TITLE:** 

COLLECTION AND

ASSESSMENT OF DEMOGRAPHIC DATA

**COURSE NUMBER: DEM 203** 

TIME ALLOWED: 2 (TWO) HOURS

**INSTRUCTIONS:** ANSWER ANY 3 (THREE)

**QUESTIONS** 

SPECIAL REQUIREMENTS: CALCULATOR

Question 1	a) List any four limitations of a census compared to a sample surv	/ey [8]
	b) Surveys and censuses may be conducted to compliment each o Explain in what circumstances this could be done.	
	c) Describe content and coverage errors in data collection	[4]
Question 2	<ul> <li>a) Using the attached data sheet calculate the Whipples Index for and 5 for both sexes and comment on the figure obtained</li> </ul>	digits 0 [12]
	b) What are Post Enumeration Surveys and how are they employed help detect errors in data.	ed to [8]
Question 3	a) Using the attached data sheet calculate the Digit Preference Inc the digits for both sexes and comment on the value obtained	
	b) How is the DPI an improvement over the Whipples Index	[16] [4]
Question 4	a) Using the attached data sheet calculate the Myers Blended Indeboth sexes	ex for [18]
	b) Explain how the MBI differs from the DPI	[2]
Question 5	a) Calculate the UN Joint Score Index using the attached data she	et. [16]
	h) State the United Nations Five Point Smoothing formula	[4]

TABLE 3: POPULATION BY CITIZENSHIP, SEX AND SINGLE YEARS OF AGE: 1997

			1886							
			TOTAL			SWAZI			NON SWAZE:	
16F				BOTH.			: E(0)[F]	7		BOTH
\e_R_0	115	WA ES	rentales.	SEXES:	MALES	- SENVICES	SEXES	MALES	FEMALES :	SEXES
	0	12 040	12 356	24 405	11 912	12 217	24 129	137	139	276
}	1	12 876	13 179	26 055	12 731	13 028	25 759	145	151	296
	2	13 756	13 784	27 540	13 616	13 611	27 227	140	173	313
}	3	14 207	14 302	28 509	14 060	14 1.63	28 223:	147	139	286
	4	15 641	15 247	29 888	14 523	15 107	29 630	118	140	258
04)		67,529	68.868	136 397	info 8442	68 (26	134 968	687	742	1 429
										- Committee of the Comm
1	5	14 300	14\ <b>2</b> 55	28 555	14 153	14 103	28 256	147	152	299
	6	<b>\14 111</b>	14 5 <mark>4</mark> 3	28 654	13 967	14 423	28 390	<b>\144</b>	120 🔪	264
	7	<b>1</b> 4 180	13 93 <b>3</b>	28 113	14 038	13 798	27 836	\\42	135	277
	8	13\317	13 760	27 077	13 195	13 638	26 833	1222	. 122	244
	9	13 068	13 788 🔪	26 846	12 960	13 663	26 623	108	115	223
5-9		68 976	70.269	39 245	68 313	69 625	137 938	663 \	644	1307
		\		\						
	10	14 499	14 652	20 151	14 382	14 518	28 900	117	134	251
	11	13 311	13 653	26 964	13 181	13 548	26 729	130	105	235
1	12	14 285	14 323	28 608	14 159	14 203	28 362	126	120	246
t .	13	13 477	3 767	27 24	13 348	13 640	26 988	129	127	256
- A	14	12 628	12 892	25 520 <b>`</b>	12 481	12 756	25 237	147	136	283
111514	4400	GB 200 ]	69 287	137, 487,	67 551	68 665	136 216	649	622	1 271
1	45	VO 570	40.67	25.250	40.266	10 507	24.072	240	405	
	15	12 578	12 672	25 250	12 366	12 507	24 873	212	165	377
1	16	11 592	12 176	23 768	11 374	12 004	23 378	218	172	390
ı.	17	10 601	11 486 \	22 067	10 314	11 276	21 590	287	190	<b>4</b> 77
	18 19	10 9 <b>9</b> 5 9 009	11 411 9 856	22 406 18 865	10 662 8 684	11 220 . 9 660	21 882 18 344	333\ 325	191	52 <b>X</b> 521
ે ક્રિક્રેક્ટ	WOOD THE REAL PROPERTY.	54 775		112 356	53 400	56 667	110 067	1 375	196 914	2 289
			91 301	200 A 200		on or to	100 004	100		2 205
	20	9 451	10 548	19 999	9 037	10 328	19 365	414	220	634
	21	7 975	9 245	17 400	7 675	9 216	16 891	300	209	509
	22	7 660	9 273	16 933	7 305	9 061	16 366	355	200	567
E .	23	7 059	8 653	15 712	6 783	8 470	15 253	276	183	459
1	24	6 662	8 388	15 050	6 401	8 208	14 609	261	180	441
20,02	THE RESERVE AND ADDRESS OF THE PERSON OF	31:174:77	- 46 287	85 094	37 201	45.283	82 484	A 1 606	1 004	2 6 10
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	25	6724	8 463	15 187	6 440	8 271	14 711	284	192	476
1	26	5 543	7 153	12 696	5 285	6 971	12 256	258	182	440
	27	5 779	6 915	ोद्र 694	5 479	6 736	12 215	300	179	479
١.	28	5 534	7 384	12\918	5 284	7 184	12 468	250	200	450
	29	6 567	7 981	14 548	6 278	7 811	14 089	289	170	459
92.572		હાઈ કોટકાર	≈7:326	58 02k	<b>28</b> 7/66	36,979	65769	1 384	923)	2 304
	30	5 704	<b>ጎ</b> 952	13 656	5 392	7 747	13 139	312	205	517
•	31	3 867	4 957	8 824	3 668	4 821	8 489	199	136	335
	32	5 088	7 15 <b>\</b>	12 239	4 808	6 967	11 775	280	184	464
	33	3 453	4 778	8 231	3 269	4 626	7 895	184	152	- 336
	34	3 876	5 330 🔪	9 206	3 656	5 180	8 836	220	150	370
3033		S21 9193 E	30468	52 156	20 702	29 341	Engan	- 1 195	827.	2 022
	A DAME		CC ROO	2.5	がたとういうと	EV UM	VO 104	1200	OLI	LALC

TABLE 3: POPULATION BY CITIZENSHIP, SEX AND SINGLE YEARS OF AGE: 1997

* • <u>•                                   </u>									
		TOTAL		Kawa ta	SWAZINE		9.01	NON SWAZI	
\ê∃			EKOTE		100	BOTH			ВОТН
<b>.</b> स्थाय	MALES .	FEMALES :	SEXES	MARES	PEMALES.		WARES.	REMALES.	SEXIES
35	4 783	6 372	11 155	4 499	6 210	10 709	284 \	162	446
36	3 996	5 372	9 368	3 764	5 238	9 002	232	134	366
37	3 724	4 490	8 214	3 519	4 365	7 884	205	125	330
38	3 700 3 442	5470	9 170 7 895	3 505 3 259	5 323 4 319	8 828	195	147	342
39 35-3 <b>9</b>	19 645	4 4 <b>53</b> 26 157	45 802	18 546	25 455	7 578 44 001	183   099	184 702	317 1 801
		**************************************						<u> </u>	
40	4 789	5 751	10 540	4 503	5 585	10 088	286	166	452
41	<b>X</b> 630	3 097	727	2 509	3 021	5 530	121	76	197
42	3 841	4 353	7 994	3 438	4 226	7 664	203	127	330
43	2 698	3 216	5 91 <b>4</b>	2 557	3 136	5 693	141	80	221
44	2 407	2 923	5 330	2 294	2 850	5 144	11/3	73	186
-10E2E	10 165	19 340	ার রাট্ট	45 301	18 818	34 119	864	522	1 386
45	4 371	4534	8 905	4 180	4 412	8 592	191	122	313
46	2 399	2 547	4 946	2 267	2 478	4 745	132	69	201
47	2 672	2 708	5 380	2 524	2 628	5 152	148	80	228
48	`\ 2 561	3 084	5 645	2 436	3 012	5 448	125	72	197
49	<b>2</b> 458	3 037	5 495	2 351	2 973	5 324	107	64	171
4549	शक्यत्।	15.910	30.37/1	18/7/58	15 503	28/261	703	407	1110
				0.004	0.004		4-4	•	
50	3 355	3 725	7 080	3 201	3 631	6 832	154	94	248 11 X
51 52	1 830 2 558	2 149 2 975	3 979 5 533	1 746 2 457	2 116 2 923	3 862 5 380	84	33 52	153
53	1 536	739	3 275	1.450	1 687	3 137	86	52 52	138
54	1 520	1 989	3 449	1 437	1 883	3 320	28	46	129
50:54	10 799	12.517	23 316	10 291	12/240	22 531	508	27.7	785
		SOME SOME SOME SOME SOME SOME SOME SOME					AL SUMMERS CONTROL		
55	2 151	2 250	4 401	2 061	2 213	4 274	90	37	127
56	1 936	1 910	8 846	1 861	1 870	3 731	75	<b>\</b> 40	115
57	1 827	1 817	3 644	1 753	1 761	3 514	74	<b>√</b> 56	130
58 50	582	1 678	3 260	1 523	1 650	3 173	59	28	87
59 55 59	1 262 8 758	1 507 9 162	2 769 17 920	1 203 8 401	1 475 8 969	2 678 17 370	59 < 357	32 \ 193	91 🔪 550
	SECTION SECTION	<b>188</b> 74.95		, and the second			Care and any		A 220
60	2 201	2 495	4 696	2 113	2 432	4 545	88	63	151
61	1 135	284	2 419	1 091	1 258	2 349	4	26	70
62	1 169	1 484	2 653	1 122	1 464	2 586	47	20	67
63	912	1 189	2 101	879	1 164	2 043	33	25	58
64	908	1 089	1 997	876	1 065	1 941	32	24	56
(50)-641.		7541	(13 866	(a) 6 (1911)	7 500	18 464	244	158	402
65	1 432	1 567	2 999	1 385	1 547	2 932	47	28	67
66	703	770	1 478	673	760	1 433	30	10	40
67	962	1 102	2 064	935	1 079	2 014	27	23	50
68	801	077	1 878	780	1 060	1 840	21	17	38
69	747	<b>9</b> 91	1 738	726	975	1 701	21	16	87
65-69	4 645	5 507	10 152	1 / / Oo 1	5 421	ം ചെ	146	86	222
Date A. A. A. S. S. S.		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	TU 192		2 4 L 1	222	1,10		232

TABLE 3: POPULATION BY CITIZENSHIP, SEX AND SINGLE YEARS OF AGE: 1997

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90 - 25 90 - 25		TOTAL	<b>3</b> 0 k	n e	SWAZI	100		non swazi	
AGE GROUP	MINITES N	savarias .	SEXES	MALES	FEMALES	BOTH SEXES	MALES	FEMALES:	BOTH. SEXES
70	988	1 418	2 406	957	1 398	2 355	31	20	51
71	430	663	1 093	421	656	1 077	9	7	16
72	773	1 170	1 943	759	1 151	1 910	14	19	33
7.3	374	581	955	368	568	936	6	13	19
74	259	545	904	350	540	890	9		14
70:74	294	a= 4377 \	7 304 .	2 855	4313	7 168	69	64 `	133
75	574	749	1 323	554	738	1 292	20	11	31
76	<b>\</b> 424	564 <sub>2</sub>	988	412	559	971	12	5	T
77	373	505 <sub>f</sub>	878	370	498	868	3	7	10
78	<b>3</b> 75	622 <sup>9</sup>	997	366	610	976	<b>\</b> 9	12	21
79	428	654	1 083	417	646	1 063	袓	8	20
75-79	2 175	3 094	5 269	2 119	3.051	5 170	56 \	43	99
80	370	648	1 018	363	635	998	7	13	20
81	156	331	487	149	326	475	7	5	12
82	237	400	637	231	394	625	6	6	12
83	253	316	569	249	309	558	4	X	.11
84	145	229	374	139	225	364	6	4	10
80-84	11461	1 924	3 085	1 131	1.889	3 020	- 30	35	<b>\</b> 65
							\		
85	177	289	486	173	281	454	4	8	18
86	125	189	314`	122	187	309	B	2	5
87 88	159 84	232 128	391 212	156 83	226 127	382 210	3	6	9 2
89	162	220	382	157	214	371	5	6	11
85 89	707	1 058	1 765	691	1 035	1 726	16	23	39
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				No. 19 Control Control			
90	110	209	319	109	209	318	1	Ø	1
91	29	71	100	29	70	99	0	1	1
92	55	91	146	55	90	145	0	1	1
93	41	52	93	41	52	93	0	0	\ 0
94	29	44	73	29	43	72	0	1	$\lambda$
90.92	264	467	731	263	464	727			4 \
95	65	81	146	62	80	142	3	1	4
96	53	67	120	53	67	120	0	0	0
97	57	77	134	57	75	132	0	2	2
98	196	363	559	190	356	546	6	7	13
2059	371	588	959	362	578	940	9	\ <b>1</b> 0.	. 19
ANS	1 332	1 566	2 898	1 245	1 524	2 769	87	42	129
TOTAL	24001 <b>5</b> 5	489 564	929 718	428 409	481 323	909 732	11 745	8 241	19,986