OBAFEMI AWOLOWO UNIVERSITY, ILE-TFE. NIGERIA
DEPARTMENT OF DEMOGRAPHY AND SOCIAL STATISTICS
FACULTY OF SOCIAL SCIENCES

Name of Examinations: Harmattan Semester Examinations, 201012011
Course Code: DSS 301
Course Title: Introduction to Demographic Data Evaluation
Instructions: Answer **Questions 1 and 5** and any other one.
Time Allowed: 2 HOURS 30 MINUTES

Question1

a) Explain the term digital preference in demographic analysis. How is it different from age heaping?
b) What do you understand by assumption of rectangularity?
c) Explain why the term "crude death rate" is crude.
d) List five sources of age misreporting in African Census age data
e) Outline five common sources of coverage errors in African Censuses
f) How is content error different from coverage error?
g) List three indices of detection of age errors and two indices of graduating age data
h) Distinguish between age ratio and sex ratio
i) List five sources of demographic data.

j) **Copy and complete the following table:**

Index of Detection of Age Error	Interpretation
Myer's Index = 0	
Whipple's Index = 205	
Myer's Index= 90	
Whipple's Index= 100	
Whipple's Index=500	
Whipple's Index =103.5	

2. Compare and Contrast United Nations Moving Average Method and Newton's Graduation Formula stating their uses, their procedures and their limitations

3. a) Carefully outline the steps in computing the UN Age-Sex Accuracy Index.
    b) How is this index different from those of Myers' and Whipple's?

4   a. Discuss the usefulness of standardization techniques in demographic analysis.
    b. What data will you require to compute age-adjusted rates using the direct standardization method
    c. Outline the step-by-step procedures in computing the Myer's Blended Index

5. a) Distinguish between the Whipple's and Myer's procedures stating their assumptions, limitations and uses.
    b) Use the data below to compare pattern of age misreporting **between males and females** using the **Whipple's Index.**

AGE	TOTAL	MALES	FEMALES
52	30,549	17,073	13,476
53	16,076	8,964	7,112
54	19,881	10,811	9,270
55	37,476	20,812	16,664
56	22,651	12,656	9,995
57	19,270	5,314	3,956
58	20,733	10,932	9,801
59	13,326	7,417	5,909
60	98,493	55,398	43,095
61	11,467	6,373	5,094
62	21,019	11,681	9,338
63	13,292	7,698	5,594
64	9,646	5,640	4,006
65	33,440	18,565	14,875
66	9,620	5,156	4,464
67	6,668	3,886	2,782
68	11,502	6,321	5,181
69	8,904	4,933	3,971
70	42,633	23,920	18,713
71	5,532	3,308	2,224
72	10,716	6,424	4,292
73	3,943	2,302	1,641
74	4,629	2,479	2,150
75	13,127	7,514	5,613
76	3,924	2,300	1,624
77	1,950	1,225	725
78	5,844	3,229	2,615
79	3,366	1,977	1,389
80	24,138	13,257	10,876
81	3,156	1,783	1,373
82	4,548	2,567	1,981
83	1,798	1,022	776
84	2,574	1,518	1,056
85+	41,392	24,211	12,181
TOTAL	10,265,848	5,268,331	4,997,517

AGE	TOTAL	MALES	FEMALES
0	184,557	90,610	93,947
1	270,565	133,306	137,259
2	267,908	132,121	135,787
3	314,691	154,629	160,062
4	316,879	157,067	159,812
5	276,165	136,296	139,869
6	267,697	135,017	132,680
7	244,455	125,554	118,901
8	256,912	129,831	127,081
9	258,922	135,073	123,849
10	291,396	152,514	138,882
11	150,757	80,225	70,532
12	270,521	146,626	123,895
13	173,433	93,586	79,847
14	188,518	104,172	84,346
15	264,345	146,870	117,475
16	185,338	103,146	82,192
17	141,529	80,744	60,785
18	194,906	107,806	87,100
19	144,737	81,489	63,248
20	402,982	200,756	202,226
21	300,824	153,879	146,945
22	292,230	143,516	148,714
23	204,960	100,702	104,258
24	210,454	102,193	108,261
25	490,382	229,517	260,865
26	214,704	99,440	115,264
27	181,069	90,080	90,989
28	221,622	102,242	119,380
29	162,985	79,872	83,113
30	471,203	223,623	247,580
31	95,241	46,701	48,540
32	165,973	83,642	82,331
33	79,411	41,643	37,768
34	72,760	37,705	35,055
35	248,026	127,994	120,032
36	94,187	48,953	45,234
37	50,111	27,197	22,914
38	89,833	46,292	43,541
39	64,604	34,287	30,317
40	296,831	158,183	138,648
41	47,267	25,483	21,784
42	77,215	42,956	34,259
43	38,931	21,570	17,361
44	24,294	13,645	10,649
45	132,686	74,310	58,376
46	34,631	19,159	15,472
47	22,686	12,865	9,821
48	45,174	24,660	20,514
49	33,008	18,664	14,344
50	149,252	81,053	68,199
51	18,803	10,201	8,602