UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2013

TITLE OF PAPER : STATISTICAL DATA PROCESSING

COURSE CODE : ST 206

TIME ALLOWED : TWO (2) HOURS

INSTRUCTIONS : ANSWER ANY THREE QUESTIONS.

Question 1

Describe the following data processing concepts:
a) Data integrity
b) Data file
c) Nonrespondent error
d) Optical scanning system
e) Value labels

(20 Marks)

Question 2

a) Summarize procedures for detecting errors and omissions from survey data. How can these errors be corrected.

(7 Marks)

b) What is the purpose of editing? Provide two examples of questions that might need editing.

(8 Marks)

c) When should the raw data from a respondent be altered by a data editor?

(5 Marks)

Question 3

a) Compare and contrast a coding scheme and code book.

(8 Marks)

b) In APPENDIX A, you will find a section of the household questionnaire used for the 2010 Swaziland Multiple Indicator Cluster Survey (MICS). Design a code book for this questionnaire.

(12 Marks)

Question 4

Draft an SPSS Syntax program using the questionnaire in APPENDIX A that can be run and open a data file in the Data Editor with variable and value labels.

(20 Marks)

HH18.
Record the time:

Hour.............. __ __

Minutes............... __ __

HOUSEHOLD LISTING FORM HL

FIRST, PLEASE TELL ME THE NAME OF EACH PERSON WHO USUALLY LIVES HERE, STARTING WITH THE HEAD OF THE HOUSEHOLD.
List the head of the household in line 01. List all household members (HL2), their relationship to the household head (HL3), and their sex (HL4)
Then ask: ARE THERE ANY OTHERS WHO LIVE HERE, EVEN IF THEY ARE NOT AT HOME NOW?
If yes, complete listing for questions HL2-HL4. Then, ask questions starting with HL5 for each person at a time.
Use an additional questionnaire if all rows in the household listing form have been used.

				HL5.	HL6	For women age 15-49	For men age 15-59	For children age 5-14	For children under age 5	If age 18-59 years	For all household members	For children age 0-17 years					
HL1. Line #	**HL2.** Name	**HL3.** WHAT IS THE RELATION-SHIP OF (name) TO THE HEAD OF HOUSE-HOLD?	**HL4** IS (name) MALE OR FEMALE?	WHAT IS (name's) DATE OF BIRTH? Record in completed years. If age is 95 or above, record '95'	**HL6** HOW OLD IS (name)?	**HL7.** Circle line number if woman is age 15-49	**HL7A.** Circle Line number if man is age 15-59	**HL8** WHO IS THE MOTHER OR PRIMARY CARE-TAKER OF THIS CHILD? Record line number of mother/ caretaker	**HL9** WHO IS THE MOTHER OR PRIMARY CARE-TAKER OF THIS CHILD? Record line number of mother/ caretaker	**HL9A.** HAS (name) BEEN VERY SICK FOR AT LEAST 3 MONTHS DURING THE PAST 12 MONTHS?	**HL10** DID (name) STAY HERE LAST NIGHT? 1 Yes 2 No	**HL11.** IS (name's) NATURAL MOTHER ALIVE? 1 Yes 2 No → HL13 8 DK → HL13	**HL12.** DOES (name's) NATURAL MOTHER LIVE IN THIS HOUSE-HOLD? Record line number of mother or 00 for "no"	**HL12A.** If mother does not live in house-hold HAS (name's) MOTHER BEEN VERY SICK FOR AT LEAST 3 MONTHS IN THE PAST 12 MONTHS?	**HL13.** IS (name's) NATURAL FATHER ALIVE? 1. Yes 2 No → Next Line 8 DK → Next Line	**HL14.** DOES (name's) NATURAL FATHER LIVE IN THIS HOUSE-HOLD? Record line number of father or 00 for "no"	**HL14A.** If father does not live in house-hold HAS (name's) FATHER BEEN VERY SICK FOR AT LEAST 3 MONTHS IN THE PAST 12 MONTHS?
		1 Male 2 Female		98 DK	9998 DK												
Line	Name	Relation*	M F	Month Year	Age	15-49	15-59	Mother	Mother	Y N DK	Y N	Y N DK	Mother	Y N DK	Y N DK	Father	Y N DK
01		0 1	1 2	__ ____	__ __	01	01	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
02		__ __	1 2	__ ____	__ __	02	02	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
03		__ __	1 2	__ ____	__ __	03	03	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
04		__ __	1 2	__ ____	__ __	04	04	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
05		__ __	1 2	__ ____	__ __	05	05	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
06		__ __	1 2	__ ____	__ __	06	06	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
07		__ __	1 2	__ ____	__ __	07	07	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
08		__ __	1 2	__ ____	__ __	08	08	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
09		__ __	1 2	__ ____	__ __	09	09	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8
10		__ __	1 2	__ ____	__ __	10	10	__ __	__ __	1 2 8	1 2	1 2 8	__ __	1 2 8	1 2 8	__ __	1 2 8