

UNIVERSITY OF SWAZILAND



MAIN EXAMINATION PAPER 2012

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:		HOUSEHOLD LISTING FORM									
Hour.....	Minutes.....	<p>FIRST, PLEASE TELL ME THE NAME OF EACH PERSON WHO USUALLY LIVES HERE, STARTING WITH THE HEAD OF THE HOUSEHOLD. <i>Use the head of the household in line 01. List all household members (HL2), their relationship to the household head (HL3), and their sex (HL4)</i></p> <p>Then ask: ARE THERE ANY OTHERS WHO LIVE HERE, EVEN IF THEY ARE NOT AT HOME NOW? <i>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.</i></p>									
		For women age 18-49	For men age 18-59	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 RELATIONSHIP OF (name) TO THE HEAD OF HOUSEHOLD?	HL4. IS (name) MALE OR FEMALE?		HL5. WHAT IS (name's) DATE OF BIRTH?		HL6. HOW OLD IS (name)? <i>Record in completed years. If age is 95 or above, record '95'</i>	HL7. Circle line number if woman is age 18-49	HL7A. Circle line number if man is age 18-59	HL8. WHO IS THE MOTHER OR PRIMARY CARE-TAKER OF THIS CHILD?	HL9. WHO IS THE MOTHER OR PRIMARY CARE-TAKER OF THIS CHILD? <i>Record line number of mother/ caretaker</i>	HL9A. HAS (name) BEEN VERY SICK FOR AT LEAST 3 MONTHS DURING THE PAST 12 MONTHS?	HL10. DID (name) STAY HERE LAST NIGHT?	HL11. IS (name's) NATURAL MOTHER ALIVE?	HL12. DOES (name's) NATURAL MOTHER LIVE IN THIS HOUSEHOLD? <i>Record line number of mother or 00 for "no"</i>	HL12A. If mother does not live in household Has (name's) MOTHER BEEN VERY SICK FOR AT LEAST 3 MONTHS IN THE PAST 12 MONTHS?	HL13. IS (name's) NATURAL FATHER ALIVE?	HL13A. 1 Yes 2 No's 8 DK's HL13	HL14. DOES (name's) NATURAL FATHER LIVE IN THIS HOUSEHOLD? <i>Record line number of father or 00 for "no"</i>	HL14A. If father does not live in household Has (name's) FATHER BEEN VERY SICK FOR AT LEAST 3 MONTHS IN THE PAST 12 MONTHS?		
			M	F	Month	Year															Age	18-49
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		

A65