

UNIVERSITY OF SWAZILAND



SUPPLEMENTARY EXAMINATION PAPER 2015

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. <i>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).</i> 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.</i> <i>Use an additional questionnaire if all rows in the household listing form have been used.</i>								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 10%; text-align: center;">For women age 15-49</td> <td style="width: 10%; text-align: center;">For men age 15-59</td> <td style="width: 10%; text-align: center;">For children age 5-14</td> <td style="width: 10%; text-align: center;">For children under age 5</td> <td style="width: 10%; text-align: center;">If age 18-59 years</td> <td style="width: 10%; text-align: center;">For all household members</td> <td style="width: 30%; text-align: center;">For children age 0-17 years</td> </tr> </table>		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
	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		

A66

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)?	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?	HL9 WHO IS THE MOTHER OR PRIMARY CARE-TAKER OF THIS CHILD?	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) NATURAL MOTHER ALIVE?	HL12 DOES (name) NATURAL MOTHER LIVE IN THIS HOUSEHOLD?	HL12A If mother does not live in household HAS (name) MOTHER BEEN VERY SICK FOR AT LEAST 3 MONTHS IN THE PAST 12 MONTHS?	HL13 IS (name) NATURAL FATHER ALIVE?	HL14 DOES (name) NATURAL FATHER LIVE IN THIS HOUSEHOLD?	HL14A If father does not live in household HAS (name) FATHER BEEN VERY SICK FOR AT LEAST 3 MONTHS IN THE PAST 12 MONTHS?
			1 Male 2 Female	98 DK 9998 DK	Record in completed years if age is 05 or above, record 95	Record line number of mother/ caretaker	Record line number of mother/ caretaker												
Line	Name	Relation*	M	F	Month	Year	Age	15-49	15-59	Mother	Mother	Y N DK	Y N DK	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