

UNIVERSITY OF SWAZILAND



MAIN EXAMINATION PAPER 2016

TITLE OF PAPER : STATISTICAL DATA PROCESSING

COURSE CODE : ST 206

TIME ALLOWED : TWO (2) HOURS

INSTRUCTIONS : ANSWER ANY THREE QUESTIONS.

Question 1

Identify the symmetry and asymmetry between the following data processing concepts;

- a) Coding Book vs. Coding Scheme
- b) Editing vs. Imputation

(20 Marks)

Question 2

The Central Statistical Office(CSO) is currently conducting the 2016 Swaziland Household Income and Expenditure Survey. Next year, it will implement the 2017 Population and Housing Census. A common national development indicator that will come out of the two exercises is the Sex Ratio. If in 2018 two different estimates are disseminated, outline technical advice (i.e. Mean Square Error of Sex Ratio) that CSO should give to her stakeholders (hint: use the concept of Mean Square Error of Sex Ratio)

(20 Marks)

Question 3

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)

Question 4

A researcher wants to use the questionnaire in APPENDIX A, and is aware that survey responses must be transformed into numeric form. Outline, clearly, the procedural steps that (s)he should follow to fulfill this survey requirement.

(20 Marks)

Question 5

Outline how issues of data quality hinge on survey data processing.

(20 Marks)

SAMPLE SURVEY QUESTIONS:

1) On a scale of 1 – 10 with 10 being the most positive, how would you describe the overall atmosphere of physician- nurse- staff relationships at your hospital?

1 2 3 4 5 6 7 8 9 10

Very negative > Barely Positive > Somewhat Positive > Mostly Positive > Very Positive

2) Have you ever witnessed disruptive behavior from a physician at your hospital?

Yes No

3) Have you ever witnessed disruptive behavior from a nurse at your hospital?

Yes No

4) Are there any particular settings where disruptive behavior is most prevalent?

(Check all that apply)

ICU OR ED OB Med-Surg Units Other _____

5) Are there any particular physician specialties where disruptive behavior is most prevalent?

(List all that apply)

6) On a scale of 1-10 with 10 being the strongest influence please rate the following factors as to their likelihood of contributing to communication difficulties.

No effect > Minimal effect > Moderate effect > Strong effect

Cultural/Ethnic differences	1	2	3	4	5	6	7	8	9	10
Generational differences	1	2	3	4	5	6	7	8	9	10
Gender differences	1	2	3	4	5	6	7	8	9	10
Personality Differences	1	2	3	4	5	6	7	8	9	10
Training Differences	1	2	3	4	5	6	7	8	9	10
Other _____	1	2	3	4	5	6	7	8	9	10

6) How often do you think disruptive behavior results in the following?

	Never	Rarely	Sometimes	Frequently	Constantly
Stress	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frustration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loss of concentration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduced RN/MD collaboration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduced information transfer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduced communication	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impaired RN/MD relationship	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7) How often do you think there is a link between disruptive behavior and the following?

	Never	Rarely	Sometimes	Frequently	Constantly
Adverse Events	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Errors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Patient safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality of care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Patient mortality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nurse satisfaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physician satisfaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Patient satisfaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall staff satisfaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8) Are you aware of any specific adverse events that did occur as a result of disruptive behavior?

Yes No

If yes, please describe: _____

Could this have been prevented?

Yes No

If yes, please describe: _____

9) Is there a code of conduct/ professional behavior standard at your hospital? If yes, is the policy effective?

Yes No Yes No

10a). If you know of a physician who has been counseled about his or her behavior, on a scale of 1-10 with 10 being completely satisfied, rate the success of this process.

1 2 3 4 5 6 7 8 9 10

Not Satisfied > Minimally Satisfied > Somewhat Satisfied > Mostly Satisfied > Completely Satisfied