

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2009

TITLE OF PAPER : STATISTICAL DATA PROCESSING
COURSE CODE : ST206
TIME ALLOWED : 2 (TWO) HOURS
REQUIRMENTS : NONE
INSTRUCTIONS : ANSWER ANY 4 (FOUR) QUESTIONS.
ALL QUESTIONS CARRY EQUAL MARKS.

**THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATOR**

QUESTION ONE.

[5 + 5 + 5 + 10 marks]

Read the following questions and find any five suitable examples of variables of different types. List those variables in complete form. [Note: "Age" is not complete, but Age of the resident of Manzini is a complete example]

- 1.1 Find an appropriate short name for the variable you just listed.
- 1.2 List some or all the possible values of the variable named in 1.1.
- 1.3 State the measurement scale to use for those variables.
- 1.4 Prepare a Code-Book for the above 5 variables.

QUESTION TWO.

[5 + 12 + 8 marks]

- 2.1 The data processing commonly refers to converting verbal or written information into machine-readable data. Explain the above statement.
- 2.2 State the different types of information we usually collect when a questionnaire was used in the data collection process. Discuss with examples.
- 2.3 Discuss the main reasons that encourage researchers to adopt items from other studies.

QUESTION THREE.

[12 + 13 marks]

- 3.1 Define Exploratory Data Analysis and Classical Data Analysis? How does Exploratory Data Analysis differ from Classical Data Analysis? Discuss.
- 3.2 Define Coding. Discuss the importance of checking for coding errors. Explain some of the checking methods.

QUESTION FOUR.

[15 + 10 marks]

- 4.1 Once data have been collected they have to be analysed. State and explain the main factors which affect how the data are analysed.
- 4.2 Suppose you are given a data set with several variables of different types. Discuss the different ways to analyse the above data set.

QUESTION FIVE.

[25 marks]

Discuss the following pairs of terms:

- 5.1 Multiple Dichotomy Method and Multiple Response Method.
- 5.2 Modes of Data Collection and Methods of Data Analysis.
- 5.3 Descriptive and Inferential Statistics.
- 5.4 Logical and Filter checks.
- 5.5 Research Proposal and Research Report.