

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER 2006

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 THREE.

[15 + 10 marks]

- 3.1 You know that the role of the measurement scales is very important when applying the various analysing techniques. Assume that you finished the data collection job of your Research Project which includes the data of all the four types of measurement scale. Discuss the use of various appropriate graphs and tables to present the data for your Project.
- 3.2 The Exploratory Data Analysis approach relies heavily on graphical techniques. State some of the insights of a data set which one can gain through the EDA approach. Use different hypothetical scatter plots as examples and list all that a data set could suggest.

QUESTION FOUR.

[15 + 10 marks]

- 4.1 State the name of three factors which affect the data analysis methods. Briefly explain how they affect the analysing methods of the data.
- 4.2 Discuss the similarities and differences between *multiple dichotomy method* and *multiple response method* when dealing with multiple responses to closed-ended questions.

QUESTION FIVE.

[20 marks]

Discuss the following pairs of terms:

- 5.1 Mathematical Model and Measurement Model.
- 5.2 Univariate Analysis and Bivariate Analysis.
- 5.3 Nominal Variables and Categorical Variables.
- 5.4 Data Collection and Data Processing.
- 5.5 Coding and Codebook.