

ACMT 111

COMPUTATIONAL METHODS AND DATA ANALYSIS 1

MAIN EXAM

QUESTION ONE (30MARKS)

1. Define what is survey in data analysis **(2mks)**
2. List and explain three sources of errors in statistics **(6mks)**
3. Explain what is meant by uncertainty analysis **(2mks)**
4. List and explain three ways in which statistical packages can be applied. **(6mks)**
5. Differentiate between variable levels and value labels in SPSS. **(4mKS)**
6. Explain five functions of statistics in data analysis **(10mks)**

QUESTION TWO (20MKS)

- A. Define what is a database. Give and explain 5 types of database. **(12mks)**
- B. What are the four requirements that must be met in construction of questionnaire. **(8mks)**

QUESTION 3 (20MKS)

- A. Differentiate between Absolute error and Relative error **(4mks)**
- B. Define and differentiate between Accuracy and Precision when it comes to measurements. **(4mks)**
- C. List and explain six advantages of questionnaire **(12mks)**

QUESTION 4 (20MKS)

- A. What are the six advantages of using STATA as a tool for data analysis **(12mks)**
- B. What are the four characteristics of a survey sample **(4mks)**
- C. List and explain research methods or studies based on design **(4mks)**

QUESTION 5 (20MKS)

- A. Command line Interface (CLI) is a command in state. What are the three functions of (CLI) **(6mks)**
- B. What are the three types of survey data analysis that are mostly related to quantitative data. **6mks)**
- C. State three roles of a Computer Data bases. **(3mks)**

D. List 5 Data Analysis and Statistical Software Packages and explain them. **(5mks)**