

COLLEGE OF SOCIAL SCIENCES, THEOLOGY, HUMANITIES AND EDUCATION

HSA 302 RESEARCH DESIGN AND DATA ANALYSIS END OF SECOND SEMESTER EXAMINATIONS

MAY 2018

LECTURER: DR PL MANGEZVO

DURATION: 3 HRS

INSTRUCTIONS

- 1. Do NOT write your name on the answer sheet.
- 2. Answer any three questions.
- 3. Begin your answer for each question on a new page.
- 4. Each question is worth a total of 20 marks.
- 5. Credit is given for neat, well-written and lucid work.

- 1. Briefly describe two major types of questions that one can include in a questionnaire emphasizing the pros and cons of each type.
- 2. The following are the marks obtained by 15 pupils in a test that was marked out of 20:

Summarise this data using a frequency table combined with percentages. Calculate the cumulative frequency and sketch an ogive graph.

- 3. With the use of examples, explain how knowing the type of data collected influences the statistical and graphical analyses that can be performed on the data.
- 4. The lower quartile, median and upper quartiles of the marks of pupils in two classes were as follows:

Statistic	Class A	Class B
Lower quartile (Q1)	35%	42
Median (Q2)	55%	48%
Upper quartile (Q3)	72%	68%

Determine which class performed better than the other.

5. Explain the nature of the relationship between age and shoe size. Plot a table of values and use it to draw a line graph that would clearly show this relationship.