

COLLEGE OF SOCIAL SCIENCES, THEOLOGY, HUMANITIES AND EDUCATION

HSA 302 RESEARCH DESIGN AND ANALYSIS (QUANTITATIVE)

END OF SECOND SEMESTER EXAMINATIONS

APRIL 2017

LECTURER: DR. P.L. MANGEZVO

DURATION: 3 HRS

INSTRUCTIONS

- 1. Do NOT write your name on the answer sheet.
- 2. Answer any two questions from Section A and one in Section B.
- 3. Illustrate all answers with original examples.
- 4. Begin your answer for each question on a new page.
- Each question carries 20 marks.
- 6. Credit is given for neat, well-written and lucid work.

SECTION A

1.

- a) Explain what is meant by the term "univariate statistics". (4 marks)
- b) Define Mode, Median and Mean. (4 marks)
- c) What is range and how is it calculated? (4 marks)
- d) Briefly outline the ethical concerns involved in doing statistical data analysis. (4 marks)
- e) Explain "probabilistic causation". (4 marks)
- Provide a detailed research design and methods that you would use to assess the pregnancy rate of high school learners in Manicaland.
- The following are the marks obtained by students belonging to two different classes in a test that was marked out of 20:

Class A: 12, 8, 7, 10, 13, 10, 11, 15, 17, 18 Class B: 15, 13, 6, 5, 19, 16, 15, 11, 7, 6

Use statistical analyses to determine which class performed better than the other.

SECTION B

Answer one question.
All questions carry 20 marks.

- Distinguish between a research design and method. Use illustrative examples to support your answer.
- Contrast theory building and theory testing. Use specific examples to support your answer.