

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

SSC2220

FACULTY OF APPLIED SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE EXAMINATIONS

DEPARTMENT OF SPORTS SCIENCE AND COACHING

THEORY: SSC2220: RESEARCH METHODOLOGY IN SPORTS SCIENCE

MAY 2012

3 HOURS (100 MARKS)

INSTRUCTIONS

Answer 4 questions only. Each question carries 25 marks. Where a question contains subdivisions, the mark value for each subdivision is given in brackets. Illustrate your answer where appropriate with large clearly labeled diagrams.

1. Distinguish between the following types of research:-

- a) Experimental research. [9 marks]
- b) Descriptive Research. [8 marks]
- c) Longitudinal Research. [8 marks]

2. Compare and contrast quantitative and qualitative research paradigms, giving examples from Sports and Physical Education [25 marks]

- 3. a) Describe four major rights that research subjects have. [10marks]
- b) Explain how these rights can be catered for in the research process. [15 marks]

- 4. a) Outline the benefits of conducting research. [10 marks]
- b) Describe four characteristics of research that make it a scientific enterprise.[15 marks]

- 5. a) Distinguish between the terms validity and reliability as used in research. [4 marks]
- b) What steps can one take to ensure validity of a self-constructed questionnaire in research? [10 marks]
- c) Describe five major factors that threaten validity in research [11 marks]

6. Describe the following terms as they are used in research:

- a) Topic
- b) Statement of the problem
- c) Hypothesis
- d) Data analysis
- e) Significance [25 marks]

END OF EXAMINATION