

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

SSC2220

FACULTY OF APPLIED SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE SUPPLEMENTARY EXAMINATIONS

DEPARTMENT OF SPORTS SCIENCE AND COACHING

THEORY: SSC2220: RESEARCH METHODOLOGY IN SPORTS SCIENCE

AUGUST 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.
 - a) Justify the need to protect the rights of research subjects? (5 marks)
 - b) Describe how the concept of informed consent is used to safeguard the rights of research participants (12 marks).
 - c) Specify the information that a comprehensive consent form should communicate about an intended research (8 marks)
2.
 - a) Explain five major benefits of conducting research in sports and Physical Education (15 marks)
 - b) Describe the steps that are followed in conducting research (10marks)
3.
 - a) Compare and contrast experimental research and descriptive research (10 marks)
 - b) Using examples from a sports setting, identify the statistics that can be used to describe the characteristics of a group to investigate differences between more than two groups to assess the relative contribution of factors to performance (15 marks)
4.
 - a) An interview can be used to complement a questionnaire in survey research. Describe the advantages of an interview over the questionnaire. (10 marks)
 - b) Explain how deception can be used in research (10 marks)
 - c) Describe steps that can be taken to ensure reliability of an instrument in research. (5 marks)
5.
 - a) Describe the following terms as used in research: limitations, delimitations, assumptions, definition of terms and significance. (10 marks)
 - b) Using examples from Sports and Physical Education, outline a research design one would use to investigate relationships between variables, establish status of a phenomenon and determine the effect of an intervention. (15 marks)

6. a) Distinguish between:-
- i) Retrospective studies. (5 marks)
 - ii) Longitudinal studies. (5 marks)
 - iii) Cross-sectional studies. (5 marks)
- b) Research should be replicable, empirical, objective, logical. State the implications of these characteristics of research. (10 marks)

END OF EXAMINATION