

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT: SPORTS SCIENCE

BACHELOR OF SCIENCE HONOURS IN SPORTS SCIENCE AND MANAGEMENT

SSM 222: RESEARCH METHODS AND SPORT ANALYTICS

DURATION: 3 HOURS

TOTAL MARKS: 100

INSTRUCTIONS TO CANDIDATES

Answer **two** questions from Section A and answer **two** questions from Section B.

SECTION A

- 1 a. What is meant by the term Quantitative research (3)
b. What is meant by the term Qualitative research (3)
c. Discuss the strengths and weaknesses of quantitative and qualitative research (14)
- 2 a. Describe the elements of a research proposal (10)
b. Discuss the purposes of a research proposal (10)
3. a. Define player tracking in sports (3)
b. Describe the tools used and the data that is collected through player tracking (7)
c. What role does data collected through player tracking play in Sports Performance Analysis research (10)

SECTION B

4. You have been asked to make a presentation to members of staff at Chikonzo Secondary

School, as a prelude to a data collection session at the school. Discuss in detail how you would explain the following including their significance, as used in research ethics: Informed consent, right to confidentiality, coding data, right to withdrawal, consent form. (30)

5. 'The literature review provides the necessary context for a research study.' Discuss. (30)

6. You are asked to carry out a research study on "The relationship between lower body strength and performance in the vertical jump test for students in the Sports Science degree program at Bindura University" Write short notes on the following:

- a. Research design. (6)
- b. Population. (6)
- c. Sampling method. (6)
- d. Data collection. (6)
- e. Data analysis. (6)

END OF EXAM