



University of Fort Hare
Together in Excellence

HUS 321

SUPPLEMENTARY EXAMINATIONS

NOVEMBER 2024

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TIME: 3 hrs

MARKS: 100

SUBJECT: Research Methods in Sport Physical Activity

THIS PAPER CONSISTS OF 3 PAGES INCLUDING COVER PAGE

INTERNAL EXAMINERS

Ms. S. Ncanywa

EXTERNAL EXAMINER

Dr L. van de Berg

INSTRUCTIONS:

Answer All Questions

QUESTION 1**[20 marks]**

- 1.1. Define research, and discuss the components that quality research involves (10)
- 1.2. How would you advise a student about reading research as they are conducting a literature review? (5)
- 1.3. Mention unscientific methods of problem solving. (5)

QUESTION 2**[20 Marks]**

2.1. Define the following terms:

2.1.1. Correlation

2.1.2. Multiple regression

2.1.3. Validity

2.1.4. Reliability

2.1.5. Epidemiology (5)

2.2. Differentiate between independent sample t-test and dependent sample t-test (4)

2.3. Can a test be reliable but not valid? Explain with example/s (4)

2.4. Briefly discuss repeated measures ANOVA (2)

2.5. Discuss the three criteria for cause and effect (5)

QUESTION 3**[20 Marks]**

3.1. The analysis of a correlation is presented in Table 2. Interpret the results by making use of a decision table in research. (20)

Table 1: The correlation between agility and speed of boxers.

		Speed	Agility
Speed	Correlation coefficient	1	.498
	P-value (Sign)	-	.012
	N	400	400
Agility	Correlation coefficient	.498	1
	P-value (Sign)	.012	-

	N	400	400
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QUESTION 4**[20 Marks]**

4.1. Discuss the following research method in sport. Focus your answer on a definition, design and methods.

4.1.1. Qualitative research (20)

QUESTION 5**[20 Marks]**

5.1. A sport scientist wanted to determine the progress made in the strength development of rugby players before the league starts. Interpret the results in the table below using the significance value (8)

Table 2: Results for the pre- and post-test analysis.

Variable	Group	Mean	SD	Sign	Effect size
Strength	Pre-test (July)	19.00	2.00	.032	.544
	Post-test (December)	25.00	2.50		

5.2. Name and discuss the 4 types of surveys (12)

TOTAL [100]

