UNIVERSITY OF SWAZILAND

FACULTY OF EDUCATION

DEPARTMENT OF EDUCATIONAL FOUNDATIONS AND MANAGEMENT   2019

FIRST SEMESTER RE-SIT EXAMINATION PAPER

JANUARY, 2019

TITLE OF PAPER: INTRODUCTION TO EDUCATIONAL RESEARCH

COURSE CODE: EFM 515

TIME ALLOWED: Three (3) hours

INSTRUCTIONS: Answer Two questions from each section

TOTAL MARKS: 100 MARKS

THIS PAPER CONSISTS OF FOUR PAGES INCLUDING THE COVER PAGE

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SECTION A

Instructions: Answer any two questions in this section.

Question 1

(a) Use the American Psychological Association (APA) sixth edition to illustrate how you would write the end of text reference list for the following:

  (i)   A book

  (ii)   An article or chapter in an edited book

  (iii)   An article in a peer reviewed journal that has three authors

  (iv)   Technical and research reports (often with corporate authors)

  (v)   Website with no author or date of publication   **(10 marks)**

(b) Discuss the **five** major components of a research report.   **(15 marks)**

[Total 25 marks]

Question 2

(a) Develop an argument either for or against the statement, 'The most important step in the research process is the identification of the research problem'. **(10 marks)**

(b) Discuss the assertion that, 'questions about variables are best addressed by quantitative research methods while research questions about processes are best addressed by qualitative methods'.   **(15 marks)**

[Total 25 marks]

Question 3

Using appropriate examples, discuss the logistical and conceptual differences between probability and non-probability sampling.   **[Total 25 marks]**

SECTION B

Instructions: Answer any two questions in this section.

Question 4

Two lecturers conducted an interview for prospective students and awarded those marks as follows.

Table 1 interview marks for 10 students

Student	A	B	C	D	E	F	G	H	I	J
Lecturer x	50	48	52	70	70	72	55	70	80	73
Lecturer y	45	44	60	66	80	60	40	68	84	72

    a) Using information in **Table 1** above calculate Spearman's rank order correlation coefficient and comment on it.   **(20 marks)**

    b) Find the mode of lecturer X.   **(2 marks)**

    c) Calculate the inclusive range of lecturer Y.   **(3 marks)**

    [Total 25 marks]

Question 5

Table below shows the marks which obtained by 10 pupils in Mathematics and English examinations.

Table 2 Mathematics and English scores

Pupil	A	B	C	D	E	F	G	H	I	J
Maths	62	71	72	62	74	83	54	78	67	57
English	63	61	51	62	58	48	75	57	60	75

    a) Calculate the mean of Mathematics marks.   **(3 marks)**

    b) Calculate the range of English marks.   **(3 marks)**

    c) Calculate the Variance of English marks.   **(8marks)**

    d) Given that the Standard deviation of Mathematics is 9.29 determine the subject in which pupil D did better.   **(16 marks)**

Question 6

A Form 5 teacher wanted to find out if there is a difference between the academic performance of pupils in Geography and History. The pupils were given tests and scores were as follows:

Table 3 Geography and History scores

Pupil	A	B	C	D	E	F	G	H	I	J
Geography	60	58	75	36	50	61	85	70	77	63
History	72	65	70	40	50	64	90	72	70	60

Carry out a t-test at 10% significance level to determine if there is a difference between the academic performance of form 5 pupils in Geography and History.   **[25 marks]**