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UNIVERSITY OF SWAZILAND

EXAMINATION PAPER

PROGRAMMES

:MASTER OF EDUCATION IN EDUCATIONAL

FOUNDATIONS AND MANAGEMENT

:MASTER OF EDUCATION IN CURRICUKUN AND

TEACHING

COURSE CODE

: EDF 620 AND EDC 620

TITLE OF PAPER

: QUANTITATIVE RESEARCH METHODS

TIME ALLOWED

: THREE [3] HOURS

INSTRUCTIONS

: ANSWER ALL FOUR [4] QUESTIONS

THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

OUESTION 1

Propose a survey research study to determine the in-service needs of beginning teachers of History in the Kingdom of Swaziland. The proposal is to be submitted to the UNISWA Research Board for funding.

[Total: 25 marks]

OUESTION 2

With an aid of a diagram, illustrate and explain the statistical analysis procedures associated with the continuum of research

[Total: 25 marks]

OUESTION 3

Explain situations and/or assumptions that are appropriate to use the following statistical analysis procedures:

- (a) One way ANOVA
- (b) CROSSTABS statistics
- (c) Independent t-test
- (d) Phi coefficient
- (e) eta
- (f) Scheffe
- (g) Parameter
- (h) Effect size
- (i) Levine test
- (j) Tukey

[Total: 25 marks]

OUESTION 4

Table 2 below provides information on the differences in perceived supervision effectiveness of heads of department by leadership position of respondents. Using the information provided in Table 2, write an abstract of no more than 250 words regarding the study. [Total: 25 marks]

Table 2

Differences in perceived supervision effectiveness of heads of department by leadership position of respondents Level of supervision effectiveness

Supervisory roles	Deputy		Heads of	of,	Agriculture	TO .	Total				
•	school heads $OV = 27$	heads	department	nent	senior teacher	her					
	(N = 27)		(N = 27)	7)	(N = 27)		(N = 81)	<u> </u>			
	X.	SD	×	SD	М	SD	M	SD	F-value	þ	Q .
Communicating	4.90	.89	5.21	.63	4.64	1.18	4.92	.94	2.55	.09	
Directing	4.88	.89	5.05	.54	4.69	1.16	4.87	.90	1.11	.33	
Time management	4.85	1.09	5.02	.69	4.74	1.33	4.87	1.04	.48	.62	
Motivating teachers	4.96	.78	4.86	.83	4.63	1.08	4.82	.91	.96	.39	
Conducting meetings	5.00	.87	4.94	1.14	4.49	1.63	4.81	1.26	1.39	.25	
Planning	4.90	.80	4.96	.75	4.24 ^b	1.40	4.70	1.07	4.00	.02	.71
Evaluating teachers	4.76	88	4.87	.65	4.21 ^b	1.32	4.61	1.02	3.39	.04	.68
Supporting teachers	4.70	.96	4.93	.79	4.12 ^b	1.29	4.58	1.07	4.35	.02	.80
Record keeping	4.73	1.09	4.64	.94	4.27	1.25	4.55	1.10	1.32	.27	
Organizing in-service training for	4.55ª	1.12	4.34	1.08	3.52 ^b	1.53	4.14	1.32	5.12	.01	2 28
Total	4.82	.73	4.88	.56	4.33	1.16	4.68	.88	3.30	.04	
p ≤ .05; means with different letters are significantly different, using One Way ANOVA.	significantl	ly diffe	rent, usi	ng One	Way ANO	VA.					

Rating scale: 1 = Very Ineffective, 2 = Ineffective, 3 = Slightly Ineffective, 4 = Slightly Effective, 5 = Effective, 6 = Very Effective Cohen d = Cohen's descriptors: small effect size: d \le .49, medium effect size: d = .50 - .79, large effect size \ge .80