

SUPPLEMENTARY 2018/19

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UNIVERSITY OF ESWATINI

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE YEAR I

COURSE CODE: HRT301 AND HORT 305

TITLE OF PAPER: RESEARCH METHODS

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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QUESTION 1

a)	With	the	aid	of	exampl	es	describe	these	terms:	
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i. Treatment [2]

ii. Variable [2]

iii. Experiment unit [2]

iv. Replication [2]

v. Factorial experiment [2]b) Discuss single factor and multiple factor experiments. [15]

[25 marks]

QUESTION 2

c) What are the primary objectives of research? [6]

d) Discuss ways to reduce experimental error. [5]

e) With annotated diagram/s discuss randomisation. [14]

[25 marks]

QUESTION 3

a) Name the factors considered before choosing a research/experimental design. [10]

b) Compare and contrast the CRD and RCBD. [10]

c) Discuss the Least Significant Difference [LSD] Test. [5]

[25 marks]

QUESTION 4

- a) What are the factors to be considered when choosing a good experimental site? [15]
- b) With the aid of diagram/s discuss hypothesis testing. [10]

[25 marks]

QUESTION 5

a) Discuss on-farm and on-station research.

[25 marks]