

2ND SEM. 2014/2015

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN HORTICULTURE YEAR III

COURSE CODE:

HORT 305

TITLE OF PAPER:

HORTICULTURAL EXPERIMENTATION

TIME ALLOWED:

TWO [2] HOURS

INSTRUCTION:

ANSWER ANY FOUR (4) QUESTIONS

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INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

a) Define research

(5 marks)

b) List the objectives of a research project

(8 marks)

c) Describe the general feasibility considerations taken before undertaking a research

project

(12 marks)

[25 marks]

QUESTION 2

a) Describe ways by which you would reduce the effects of experimental error in your research (15 marks)

b) What are the merits of replicating a research experiment?

(10 marks)

[25 marks]

QUESTION 3

Describe the conditions under which you would utilise the following experimental designs:

a) Latin square design

(12 marks)

b) Split plot design

(13 marks)

[25 marks]

QUESTION 4

With the aid of appropriate examples, discuss the following:

a) Blocking (9 marks)
b) Replication (9 marks)
c) Plot size (3 marks)
d) Experimental error (4 marks)

[25 marks]

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QUESTION 5

Using appropriate examples, discuss the components of a research proposal using the following guidelines:

a)	Introduction	(5 marks)
b)	Problem statement	(5 marks)
c)	Materials and methods	(9 marks)
d)	Literature review	(6 marks)

[25 marks]