

2ndSEMESTER 2015/2016

PAGE 1 OF 3

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

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

PAGE 2 OF 3

ANSWER ANY FOUR (4) QUESTIONS

Question 1

(a) What is research? List the objectives of a research.

[13Marks]

(b) What would you consider as the characteristics of a good research?

[12 Marks]

[25 marks]

Question 2

Write a concise outline of research proposal for your final year research project.

[25 marks]

Question 3

Describe the general steps involved in field research experimentation.

[25 marks]

Question 4

- (a) What is experimental error? How would you reduce this in your research experiment? [15 Marks]
- (b) Why would you consider replicating the treatment levels in your research experiment? [10 Marks]

[25 marks]

PAGE 3 OF 3

Question 5

In a field experiment conducted to compare the growth of 3 lettuce varieties in a randomized complete block design replicated four times. The following yield results were obtained (kg/plot)

Cultivar	Rep 1	Rep 2	Rep 3	Rep 4
ELIHPNOLH	12	13	14	15
ELIKEZEF	13	15	16	10
ELIZEKNEY	12	11	14	13

(a) Sketch the complete ANOVA table for this experiment

[20 marks]

(b) Show the field layout of the experiment

[5 Marks]

[25 marks]