



2nd SEMESTER 2016/2017

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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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ANSWER ANY FOUR (4) QUESTIONS

Question 1

- (a) Describe the objectives of a research. [13 Marks]
 - (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) Explain how experimental error can be minimised in an experiment? [15 Marks]
 - (b) What pitfalls must be avoided during literature review process? [10 Marks]
- [25 marks]

Question 5

In a field experiment conducted to compare the growth of three 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
AWDOZ	12	13	14	15
ELHUB	13	15	16	10
ELHAMA	12	11	14	13

- (a) Sketch the **complete ANOVA table** for this experiment [20 marks]
 - (b) Show the plot layout of the experiment [5 Marks]
- [25 marks]