



UNIVERSITY OF ESWATINI

MAIN EXAMINATION PAPER

PROGRAMME: B. SC. IN AGRONOMY YEAR FOUR

COURSE CODE: CPR401

TITLE OF PAPER: AGROFORESTRY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ALL QUESTIONS

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**QUESTION 1**

"Agroforestry is the production of trees and non-tree crops or animals on the same piece of land" Give reasons to show that this description of agroforestry is insufficient. **[25 marks]**

**QUESTION 2**

- a) Distinguish between the following terms: agroforestry system, agroforestry practice and agroforestry technology. (6 marks)
  - b) Identify and briefly describe two major agroforestry systems in use in Southern Africa. (5 marks)
  - c) Describe two advantages and two disadvantages that are unique to each system mentioned in (b). (14 marks)
- [25 marks]**

**QUESTION 3**

Canopy of silviculture trees in agroforestry systems may be managed on the basis of clear objectives.

- a) Identify five objectives for incorporating trees as fundamental components of agroforestry systems. (5 marks)
  - b) Detail how you would manage the tree canopy to achieve each of the objectives identified in (a). (20 marks)
- [25 Marks]**

**QUESTION 4**

- a) Why is it important to identify the desirable root characteristics for agroforestry tree species? (8 marks)
  - b) What are those root characteristics that are desirable in agroforestry tree species? (8 marks)
  - c) Why is it not sufficient to concentrate on root characteristics in agroforestry tree species? (9 marks)
- [25 marks]**