

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DIPLOMA IN AGRICULTURE

NARE 0353: AGROFORESTRY

STREAMS: DIP AGRI Y3S2

TIME: 2 HOURS

DAY/DATE: MONDAY 08/04/2024

11.30 A.M – 1.30 P.M.

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any TWO in SECTION B.
- Do NOT write anything on the question paper.

SECTION A: 30 MARKS

1. Briefly explain the meaning of the following terms as applied in agroforestry. (4 marks)
 - (a) Allelopathy
 - (b) Competition
 - (c) Biomass transfer
 - (d) Supplementary interactions
2. Discuss the need for Agroforestry as an alternative land use. (6 marks)
3. Differentiate between homegardens and windbreaks. (4 marks)
4. State six factors to consider when choosing an Agroforestry tree species. (6 marks)
5. Briefly discuss the role of agroforestry in improving soil fertility. (6 marks)
6. Distinguish between 'pricking out' and 'hardening off' in tree nursery management. (4 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

7. (a) Discuss the contribution of agroforestry in livestock production in Kenya. (12 marks)
(b) Discuss the role of agroforestry in addressing climate change in Kenya. (8 marks)

8. Discuss the importance of insects in agroforestry. (20 marks)
9. (a) Discuss the various functions of agroforestry systems to farmers, farms and the environment. (10 marks)
- (b) Discuss the criteria used in classifying agroforestry systems in the tropics. (10 marks)
-