

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE AND BACHELOR OF EDUCATION (AGED)

NARE 453: AGROFORESTRY

STREAMS: BSC (AGED & ANIMAL SCIENCE)

TIME: 2 HOURS

DAY/DATE: FRIDAY 17/04/2020

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Answer all questions in section A and any other two questions in section B.
- Do not write anything on the question paper.

SECTION A: (30 MARKS)

1. Explain the following terms in relation to Agroforestry
 - (i) Multipurpose Trees Species (MPTs) (4 marks)
 - (ii) Alley cropping (4 marks)
 - (iii) Sericulture (4 marks)
2. Briefly, discuss the contribution of agroforestry to food security. (6 marks)
3. Discuss the contribution of agroforestry to climate change. (6 marks)
4. Highlights three attributes of agroforestry systems. (6 marks)

SECTION B: (40 MARKS)

5.
 - (a) Discuss various management techniques which are applied to agroforestry trees and shrubs in high potential areas. (10 marks)
 - (b) Discuss the role of gender mainstreaming in the promotion of agroforestry practices in rural areas. (10 marks)

6. (a) Discuss the desired characteristics of an “ideal” agroforestry tree species in promoting soil fertility. (10 marks)
- (b) Discuss the criteria used in classifying agroforestry systems in the tropics. (10 marks)
7. (a) Using examples, critique agroforestry as a land use system in developing countries. (12 marks)
- (b) Discuss the contribution of agroforestry in the promotion of business enterprises in Kenya. (8 marks)
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