

CHUKA



UNIVERSITY

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**SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR
OF SCIENCE IN NATURAL RESOURCES**

NARE 212: PRINCIPLES OF FORESTRY

STREAMS: BSC (NARE) Y2S2

TIME: 2 HOURS

DAY/DATE: FRIDAY 17/04/2020

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- **Answer ALL questions in section A and any other TWO questions in section B.**
- **Do not write on the question paper.**

Q1. Distinguish between:

- (a) Afforestation and reforestation (2 marks)
- (b) Coppicing and pollarding (2 marks)
- (c) Forest composition and forest structure (2 marks)

Q2. Briefly explain any 6 thematic areas of focus for sustainable forest management. (6 marks)

Q3. Write short notes on the following terminologies used in forestry.

- (a) Seed tree (2 marks)
- (b) Thinning (2 marks)
- (c) Seed inoculation (2 marks)

Q4. Briefly explain 6 objectives of forestry in Kenya. (6 marks)

Q5. Briefly explain factors you would consider in order to select a suitable site for a commercial tree nursery. (6 marks)

SECTION B: (40 MARKS)

- Q6. (a) Explain the main differences between natural and plantation forests. (10 marks)
- (b) Explain 5 ways through which Kenya can improve its forest cover to meet the international requirement of at least 10% (10 marks)
- Q7. Discuss the processes involved in seed collection, handling, storage and pre-treatment. (20 marks)
- Q8. Stating the merits and demerits of each, discuss various techniques applied to pests and diseases control in forestry. (20 marks)
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