

CHUKA



UNIVERSITY

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**THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE**

ENSC 308: ENVIRONMENTAL FORESTRY

STREAMS: BSC (ENSC)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 11/4/2018

8.30 A.M. – 10.30 A.M.

INSTRUCTION:

- **ANSWER ALL QUESTIONS IN SECTION A AND ANY OTHER TWO QUESTIONS IN SECTION B**
- **DO NOT WRITE ANYTHING ON THE QUESTION PAPER**

1. Explain the following terms as used in environmental forestry
 - (a) Carbon pools [2 marks]
 - (b) Biodiversity hotspot [2 marks]
 - (c) Forest tenure [2 marks]
2. Highlight six thematic elements of sustainable forest management. [6 marks]
3. Outline four advantages of community forestry. [4 marks]
4. Describe four desired characteristics of multipurpose agroforestry trees. [4 marks]
5. Briefly describe the classification of Kenyan forest according to Peltorinne, 2004. [6 marks]
6. Write short notes on forest value chains. [4 marks]

SECTION B (40 MARKS)

7. Discuss the role of indigenous communities in forest conservation and management in the modern society. [20 marks]
8. (a) Discuss the Sustainable Development Goals (SDG) in relation to forestry. [10 marks]
- (b) Discuss the potential of Kenya's forestry sector in addressing poverty and unemployment among the youths. [10 marks]

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9. Discuss the role of forests in climate change mitigation and adaptation. [20 marks]
