

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

ENSC 322: ENVIRONMENTAL FORESTRY

STREAMS: BSC (NARE) Y3S1

TIME: 2 HOURS

DAY/DATE: MONDAY 02/12/2019

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

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

SECTION A (30 MARKS)

- Q1. Define the following terms as used in environmental forestry
- | | |
|----------------------------|----------|
| (a) Ecosystem | [1 mark] |
| (b) Forest | [1 mark] |
| (c) Forestland | [1 mark] |
| (d) Greenzone | [1 mark] |
| (e) Forest resources | [1 mark] |
| (f) Forest management plan | [1 mark] |
- Q2. Discuss five roles of Kenya forest service [5 marks]
- Q3. List six forest offenses and penalties prescribed in the Forest Act 2016 [6 marks]
- Q4. Explain with example why caution need to be taken in forestry of invasive species [3 marks]
- Q5. List various consequences of deforestation [5 marks]

ENSC 322

Q6. Explain various ecological benefits of agro forestry [5 marks]

SECTION B

Q7. (a) Discuss various challenges facing forestry systems in Kenya. [10 marks]

(b) List various ecological services provided by forest ecosystem [10 marks]

Q8. (a) Discuss the sustainable development goals (SDG) in relation to forestry. [10 marks]

(b) Explain the potential of Kenya forestry sector in addressing poverty and unemployment among the youth. [10 marks]

Q9. (a) Discuss the role of forests in climate change mitigation and adaptation [10 marks]

(b) Briefly describe classification of Kenya forest according to Peltorinne, 2004 [4 marks]

(c) Define community ecological governance and explain its roles in forest management. [6 marks]
