CHUKA



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FOURTH YEAR EXAMINATIONS FOR THE AWARD OF DEGREE OF SCIENCE IN WILDLIFE ENTERPRISE AND MANAGEMENT

NARE 200: NATURAL RESOURCES ECOLOGY

STREAMS: BSC (WIEM) (Y4S2) TIME: 2 HOURS

DAY/DATE: WEDNESDAY 03/02/2021 2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

Q1.

• Answer all in section A and any other two in section B.

Describe the two main components of an ecosystem

• Do not write anything on the question paper

SECTION A: [30 MARKS]

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Q2.	List and briefly describe three major ecosystems of the world	(6 Marks)
Q3.	What is meant by energy flow in an ecosystem?	(4 Marks)
Q4.	Write short notes on the following as used in ecology:	
	(a) Ecological niches	(2 Marks)
	(b) Producers	(2 Marks)
	(c) Food web	(2 Marks)
	(d) Ecological pyramids	(2 Marks)
	(e) Food chain	(2 Marks)

Q5. Briefly describe three differences between 'population' and 'community' as used in ecology (6 Marks)

SECTION B [40 MARKS]

- Q6. Describe the 'Nitrogen biogeochemical cycle' occurring in nature (20 Marks)
- Q7. Using Illustrations, discuss the relationships between natural resources, ecosystem functions and ecosystem services (20 Marks)
- Q8 (a) Discuss five ecosystem services provided by wetlands (10 Marks)
 - (b) Discuss human activities that may impair proper functioning of ecosystems

(10 Marks)

(4 Marks)
