# NATIONAL UNIVERSITY OF LESOTHO

## **B.Ed/BSc/B.URP EXAMINATION**

## **GES 2303 – ADVANCED HUMAN AND ENVIRONMENTAL SYSTEMS II**

MAY 2023	<b>MARKS: 100</b>	3 HOURS
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Instructions: Answer any four (4) questions and where necessary illustrate your answer with the use of appropriate diagram.

#### Question 1

Distinguish between the following pairs of terms/concepts. Give example of each.

a)	Renewable energy and non-renewable energy	(8)
b)	Energy conservation and energy efficiency	(8)
c)	Gross primary productivity and net primary productivity	(9)

(25 Marks)

#### **Question 2**

Do you agree or disagree with the following propositions. Explain why you agree or disagree.

a) Stabilizing the population is not desirable because, without more consumers, economic growth would decline.

(12)

b) The world will never run out of resources because we can use technology to help us discover substitutes and to help us reduce resource waste.

(13) (25 Marks)

#### **Question 3**

a)	Explain any five characteristics of industrialized agriculture.		(10)
b)	Explain any three environmental impacts of industrialized agriculture.	_	(15)

(25 Marks)

# Question 4

a)	Distinguish between point source and non point source pollution.	(10)
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b) Explain why nonpoint source pollution is more difficult to control as opposed to point source pollution (15)

(25 Marks)

## **Question 5**

Explain the meaning of the following terms/concepts as used in environmental science.

i)	Exponential population growth	(5)	
ii)	Ecological footprint	(5)	
iii)	Matter quality	(5)	
iv)	Trophic level	(5)	
v)	Negative feedback loop	(5)	
		(25 Mar	·ks)

### Question 6

Explain any four factors that account for the falsification of the Malthusian hypothesis.

(25 Marks)