The National University of Lesotho

BSc Environmental Science Examination

ES 2301: Principles of Environmental Science

January 2024	Duration: 3 hours	Marks: 100
Instructions:		
• Answer any four ((4) questions	
Where applicable	illustrate your answer with diagrams.	
Question 1		
a) What is the purpos	se of Lesotho Environment Act?	(5)
b) With reasons, spec	cify if Environmental Impact Assessment is no	eeded for the following
projects or not.		
i. Dams and rese	ervoirs	(5)
ii. Community ga	arden development	(5)
iii. Power plants		(5)
iv. Large scale Irr	igation system	(5)
		(25)
Question 2		
a) Why is it important to know biochemical cycle of elements?		(4)
b) What are sources of carbon dioxide into the atmosphere?		(10)
c) How does carbon dioxide influence climate change?		(6)
d) What is the role of	f leguminous plants in nitrogen cycle?	(5)
		(25)
Question 3		
Explain how the following	g affect biodiversity	
a) Habitat cha	nge	(5)
b) Climate cha	ange	(5)
c) Invasive sp	ecies	(5)
d) Pollution		(5)
e) Over extrac	ction/overexploitation	(5)
		(25)

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Question	7

a) Describe why water should be conserved. (5) b) How does pollution affect water resources? (10)c) Mention and explain 5 Agricultural water conservation practices. (10)**(25)** Question 5 a) Discuss why population growth should be a concern to Environmental scientists. (25) **(25)** Question 6 a) Differentiate between renewable and non-renewable energy. (4) b) Which of the above is sustainable and recommended for use? explain (15)(6) c) Discuss why hydrogen economy is good for environment.

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