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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE AND NATURAL RESOURCES MANAGEMENT

ENSC 253: BIODIVERSITY CONSERVATION

STREAMS: BSC (NARE) 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)

- 1. Briefly explain the significance of various lifeforms on planet Earth. [6 marks]
- 2. Explain how habitat fragmentation is a major threat to world's biodiversity [6 marks]
- 3. Explain three situations of ecosystem degradation by invasive species in Kenya. [6 marks]
- 4. Explain three biogeographical limits of living organisms [6 marks]
- 5. Explain the circumstances under which preservation of biodiversity may be justified

[6

marks]

6. Explain the main approaches through which Kenyan government promotes biodiversity conservation. [6 marks]

SECTION B (40 MARKS)

7. Using an appropriate illustration, explain the value of biodiversity in the world.

[20

marks]

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8.	(a)	The samples values of 5 species are 60, 10, 25, 14. Calculate the Shannon		
		diversity index and evenness for these sample values	[10	
marks]				
	(b)	Explain the impacts and significance of various forms of organisms int	eractions in	
		an ecosystem.	[10 marks]	
9.	Discus	scuss the categories of the conservation status of World's biodiversity as described in		
	the IU	CN Red Data Book, 2004 Edition.	[20 marks]	