## B.Sc. Sem.-3 Examination

## CC 201

## **Environmental Science**

Time: 2-00 Hours

## December 2021

[Max. Marks : 50

Instructions: (1) All Questions in Section I carry equal Marks. (2) Attempt any THREE questions in Section I.			
		(3) Questions IX in Section II is Compulsory.	
		(4) Draw Figures where necessary. Show question number against each answer.	A
		(5) Figures in right are marks.	7
Section-I			
	1.	(A) Importance of Biodiversity Patterns In conservation.	7
		(B) Describe spatial patterns in Biodiversity.	7
	2.	(A) Detailed Note on community diversity estimation.	7
		(B) Explain sampling strategies and surveys of Biodiversity.	7
	3.	(A) Short note on Carbon Cycle with examples.	7
		(B) Describe Nitrogen cycle with examples.	7
	4.	(A) Give importance of different values of biodiversity.	7
		(B) Describe water Purification technique.	7
	5.	(A) Explain Threats of Biodiversity.	7
		(B) Describe natural and anthropogenic disturbances of biodiversity.	7
	6.	(A) Explain Habitat Loss, Habitat fragmentation & habitat degradation.	7
		(B) Describe Hotspot area of World.	7
	7.	(A) Give detail Note on National Park of India.	7
		(B) Describe IUCN category with examples.	7
	8.		7
		(B) Describe Ex-situ conservation of biodiversity.	7
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		Answer in short (Any Eight)	8
	-	What is the reason behind the vast diversity in Indian ecology?	
		Name an artificial ecosystem with high productivity.	
		In the IUCN Red List (2004), what does 'Red' represent?	
		State a difference between endemic and exotic species.  Differentiate between species diversity and ecological diversity.	
		Define the Red Data Book.	
		What is a gene pool?	
	-	What do you mean by 'Frugivorous'?	
The same of the sa		Expand IUCN.	
1	1	What is Endemism	
		What is a biodiversity hotspot?	
V 400	•	Define: Deforestation.	
	_	How can the loss of one species lead to the extinction of another?	
(14) Can diversity and productivity of a natural community be constant for over a			
		hundred years?	
(	15	Give two names of National Park of Gujarat?	
(	16	What are the factors that determine a species as threatened?	
93		Define: Habitat Loss	
		How do scientists estimate the total number of species on earth?	
(	19	State two ways through which humans are benefitted from biodiversity.	
(	[20]	Define endangered species with an example for endangered plant and	

Animal species.