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SARDAR PATEL UNIVERSITY FOURTH SEMESTER B.Sc. EXAMINATION

WEDNESDAY 6th APRIL 10:30 am TO 01:30 pm USO4CENV 01 (COMPONENTS OF ECOLOGY)

Marks: 70

Note: 1. Answers of all the questions (including multiple choice questions) should be written in the provided answer book only

2. Draw neat and labeled diagrams wherever necessary

Q.1. Select the corr	ect answer and wr	ite it in the answer sheet.	[10]
	-	tion between hydrophytes as (c) Eremophytes (c	* *
2. Pneumatophores a	re present in	200 C C C C C C C C C C C C C C C C C C	
(a) Hydrilla	(b) Neem	(c) Mangrooves	(d) Acacia
3. Atmosphere comp	orises of %	of nitrogen	
(a) 73	(b) 75	(c) 77	(d) 79
		continuous synthesis of (c) Carbohydrates	
5. In living organism (a) Carbon	, CO ₂ is main source (b) Hydroge	n (c) Nitrogen	(d) Chromium
6 is made up embedded.	o of matrix formed	by a fungus within the cells	s of which alga is
(a) Hermit Crab	(b) Lichen	(c) Moth	(d) All
7 is not an e	example of commen	salism	
(a) Linas	(b) Epiphytes	(c) Lichens	(d) Epizoans
_	commonly associate (b) Sal	ed with Western Ghats? (c) Orchid	(d) Zizipus
9. Grazing is the don (a) Desert (b) Gr forest	ninant activity foun assland (c)	d in to maintain the Tropical rain forest (d)	e ecosystem Mangroove swamp
	s of thorny species of es of in 5 0	on displacement of production	ve grasslands are
(a) Nitrogen depositi			
(c) Desertification pr	rocess	(d) Unexpected humidific	cation

Q.2. Answer the following questions in brief (Any 10)			
1. Define the term ecological adaptation			
2. What are succulents?			
3. What are hydrophytes?			
4. Show diagrammatic representation of nitrogen cycle			
5. Draw a labelled diagram of mineral cycle			
6. Discuss in brief the cycling of oxygen in ecosystem			
7. Write about Carnivorous plants as an example of negative interaction			
8. Write note on Zoochlorella			
9. Write in brief about Antibiosis			
10. Define the term Phytogeography			
11. What are endemic species?			
12. Enlist the animal species of Alpine biome			
Q.3. (a) Describe the morphological adaptations of Hydrophytes			
(b) Write in brief about Halophytes	[03]		
OR	. ,		
Q.3. (a) Describe the adaptations of Xerophytes			
(b) Explain in brief the anatomical adaptations of Mesophytes			
Q.4. Give a detailed account of Phosphorus cycle			
OR			
Q.4. Discuss the Carbon cycle in detail			
Q.5. (a) Explain Mutualism with suitable examples			
(b) Write note on Predation	[04]		
OR	[06]		
Q.5. (a) Write note on Commensalism(b) Explain exploitation as negative interaction			
Q.6. Give an account of different Phytogeography regions of India	[10]		
OR			
Q.6. (a) Discuss how radiation index of dryness affect vegetation patterns			
(b) Describe the effects of rainfall on the type of species prevailing in			
Indus and Gangetic region			

ALL THE BEST