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ENVIRONMENTAL SCIENCE

(Ecology and Environment)

Tin	ne : 1	hree Hours	[Maximum Mar	rks : 80
		Note :- ALL	questions are compulsory.	
1.	(A)	Fill in the blanks with appropriate	words :	
		(i) is a hotspot of Biod	liversity in India.	1/2
		(ii) Parasitism is an example of _	interspecific relationship.	1/2
		(iii) is a gaseous biogeo	chemical cycle.	1/2
		(iv) is a climatic factor.		1/2
	(B)	rewrite the following sentences:		
		(i) is an example of co	is an example of commensalism.	
		(a) Vanda (orchid)	(b) Cuscuta	
		(c) Algae	(d) Fungi	
		cter of community.	1/2	
		(a) Abundance	(b) Fidility	
		(c) Quadrat	(d) Presence	
		(iii) is the reason for bid	odiversity loss.	1/2
		(a) Forests fires	(b) Conservation	
		(c) Natality	(d) Species diversity	
		(iv) The ecological boundaries of t	he two different floristic composition is ref	
			**	1/2
		(a) Biodiversity	(b) Ecotone	
		(c) Productivity	(d) Interspecific Relationship	
	(C)	Answer in one sentence :		
		(i) Define Xerosere.		1
		(ii) Define Food Web.		1
		(iii) Define Ecosystem.		
2	Б	(iv) Define Phenology.		- 1
2.		scribe in brief :		
	(a)	Scope of ecology.		4
	(b)	Climatic factors.		4
	(c)	Graphic sketch of 'N' cycle.	OB	4
	(4)	Piotic feators	OR	4
	(d)	Biotic factors.		4
	(e)	Significance of 'P' cycle.		4
	(f)	Sketch of 'C' cycle.		4



5.	hirstranker schoice	www.FirstRanker.com	www.FirstRanker.com
	(g) Parasitism.		4
	(h) Biotic potential.		4
	Age structure.		4
		OR	
	(j) Predation.		4
	(k) Natality and Mortality	ÿ.	4
	 Mutualism. 		4
4.	Describe in brief:		
	(m) Presence and constan	ce.	4
	(n) Phenology.		4
	(o) Species diversity.		4
		OR	
	(p) Frequency.		4
	(q) Community study by	Quadrat method.	4
	(r) Dominance.		4
5.	Describe forest ecosystem	with its significance.	12
		OR	
	Describe food chain in fo	rest ecosystem.	12
6.	Describe the process of s	accession and causes of succession	on. 12
		OR	
	Describe the concept of CO ₂ and O ₂ method ?	Productivity. How productivity	is measured by chlorophyll, 12
7.	Explain in brief:		
	(s) Ecological indicators	of soil.	4
	(t) Types of biodiversity		4
	(u) Reasons for loss of l	piodiversity.	4
		OR	
	(v) Role of Biological in	dicators in Environment.	4
	(w) Hotspots of Biodiver	sity.	-4
	(x) Global diversity.		4