## M.Sc. Final (Environmental Science) (CBCS Pattern) Third Semester

## PSCENVT12-2 / PSCENVT12 - Foundation Course - Ecology Paper-XII

	ages : e : Thr			Max. Marks : 80
	Note		<ol> <li>All questions are compulsory and carry equal marks.</li> <li>Illustrate the answers with suitable diagrams and examples.</li> </ol>	
1.		Wh	nat is ecological niche? Describe its types.	16
			OR	
		a)	Explain major terrestrial biomes.	8
		b)	What is ecosystem stability? Give an account on resistance and resilie	ence. 8
2.		-	plain life tables, survivorship curves and population growth as character pulation.	istics of 16
			OR	
		a)	Describe deterministic and stochastic models of population dynamics.	. 8
		b)	Explain the concept of population and meta-population.	8
3.		Wi	th suitable examples describe how species interacts with each other.	16
			OR	
		a)	Explain types of ecological succession.	8
		b)	Describe the structure of community.	8
4.		Def	fine biogeochemical cycle. Give its types. With a neat sketch explain nit	trogen cycle. 16
			OR	
		a)	State types of ecosystem. Explain desert ecosystem.	8
		b)	Describe detritus pathway of energy flow and decomposition processe	es. <b>8</b>
5.	a)	State Liebig's law of minimum and Shelford's law of Tolerance.		4
	b)	Highlight stress- tolerance strategies.		
	c)	Write a note on ecotone and edge effect.		
	d)	Wh	at is nutrient budget? Enlist nutrient conservation strategies.	4
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