Bachelor of Science (B.Sc.) (Part-I) (CBCS Pattern) First Semester

USENVT02 - Environmental Science Paper-II (Ecology)

	ages: 1 e:Three	Hours	GUG/W/18/11 * 3 6 2 6 * Max. Marks	
	Notes:	1. 2.	All questions are compulsory and carry equal marks. Illustrate the answers with suitable diagrams and examples.	
1.			ecology. State objectives of ecology. Give sub-division of it. Add a note on tions of ecology.	10
			OR	
	a)) Di	scuss wind and fire as an environmental factors.	5
	b)) W	ith suitable examples discuss positive interaction.	5
2.	D	efine (ecological succession. Describe general process of ecological succession. OR	10
	a)) De	escribe age structure of population. How population density is estimated?	5
	b)		hat is ecotone and edge effect? Write a note on ecological niche.	5
3.	What is primary and secondary productivity? Describe harvest method and light and dark battle method for productivity measurement. OR			
	a)) Ex	plain ecological pyramids w.r.t number and energy.	5
	b)		efine biogeochemical cycle with a sketch explain oxygen cycle.	5
4.			re causes of mimicry? Describe evolution of mimicry. Give an account on Batesian llerian mimicry.	10
			OR	
	a)) De	escribe adaptation in xerophytes.	5
	b)) Sta	ate importance of colouration. Highlight biological significance of colours.	5
5.	A	nswer	in 2-3 lines any ten.	10
	a)	•	hat is microclimate?	
	b)	,	ate Shelford's law of Tolerance.	
	c) d)		ve examples of antibiosis. efine natality.	
	e)		hat are ecotypes?	
	f)		ve examples of major community.	
	g		hat is lotic ecosystem?	
	h)) W	hich type of biogeochemical cycle nitrogen cycle is.	
	i)		ve full form of GPP.	
	j)		hat is camouflage?	
	k)		ve examples of hydrophytes.	
	1)	De	efine bio-mimicry.	
