## Bachelor of Science (B.Sc.) Fifth Semester

## **B.Sc. 3508 - Botany Paper-II (Plant Ecology)**

P. Pages: Time: The		ours * 1 0 4 2 *	<b>GUG/W/18/1329</b> Max. Marks : 50
Note	es: 1 2	1 1 7 7 1	elled diagrams
1.	Expl	ain physical properties of soil. Add a note on soil profile.	10
		OR	
	a)	Nitrogen Cycle.	5
	b)	Effects of water pollution on plants.	5
2.	Wha	at is autecology? Write about importance of autecology. Add a note on	ecotype. 10
		OR	
	a)	Anatomical Adaptations of Hydrophytes.	5
	b)	Factors affecting distribution of species.	5
3.	Writ	e short note on-	
	a)	Branches of ecology.	2½
	b)	Ecological pyramids.	2½
	c)	Ecad.	21/2
	d)	Causes of Succession.	21/2
		OR	
	e)	Effects of light on plants.	21/2
	f)	Interaction between plants and microorganisms.	21/2
	g)	Life forms.	2½
	h)	Halophytes.	21/2

4.	Wri	Write short notes on-			
	a)	Interaction between plants and animals.	21/2		
	b)	Energy flow.	21/2		
	c)	Quantitative analysis of plant community (any two methods)	21/2		
	d)	Alpine zone.	21/2		
		OR			
	e)	Gaseous composition of atmosphere.	21/2		
	f)	Air pollution (control).	21/2		
	g)	interactions among population.	21/2		
	h)	Climax Concept.	21/2		
5.	Wr	ite answers for any ten is two or three lines only (Diagrams not necessary).	10		
	a)	Weathering.			
	b)	Mesotherms.			
	c)	Amensalism.			
	d)	Decomposers.			
	e)	Aerosols.			
	f)	Food chain.			
	g)	Ecotone.			
	h)	Sigmoid curve.			
	i)	Neutralism.			
	j)	Plant Succession.			
	k)	Aerenchyma.			
	1)	Phytogeography.			

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