This question pap	per contains 3 prin	nted pages]				
		1	Roll No. [
S. No. of Question	n Paper : 752					
Unique Paper Coo	de : 21640 :	3			E	
Name of the Pape	r : Plant I	Ecology and Phy	ytogeograp	hy (BTHT-40)6)	•
Name of the Cour	se : B.Sc. (Hons.) Botany			•	
Semester	: IV					
Duration: 3 Hour	8	· .		•	Maximum	Marks: 75
(Write	your Roll No. on	the top immediat	tely on recei	pt of this que	stion paper.))
		Attempt Five qu	estions in a	11. ·		
	Q	uestion No. 1 i	s compulso	ry.		
	Attemp	ot any four ques	stions from	the rest.		
	All parts of	a question mus	st be answe	ered together.		
(a) Defin	e the following ter	ms (Attempt any	y six):		•	6×1.5=9
(i)	Water table					
(ii)	Standing state	• ,				
(iii)	Ecological niche	•				
	Ecosystem					
	4					
(v)	Food chain	.•				
(vi)	Mutualism					
(vii)	Aquifer					
(viii)	Thermocline.					
(b) Fill in	n the blanks (Atter	mpt any six):				6×1=6
(i)	The process of	f successful e	stablishme	ent of a spe	ecies in a	new area
•	is					-
						P.T.O.

	(2)	75
	(ii) The transition area between two or more communities or biomes	is
	(iii) The total water present in soil is	
	(iv) Species on which one or more other important species are depe	endent for their food
	reproduction and other requirements are	
	(v) The process of breakdown of parent rock material by any agent	into smaller particle
	is known as	
	(vi) The functional levels of an organism in any food chain is	
	(vii) An instrument used to measure light intensity is	
Diff	Ferentiate between the following (Attempt any five):	5×3=1
(i)	Commensalism and Ammensalism	3×3=1
		•
(ii)	Primary and Secondary Succession	
(iii)	Alluvial soil and Eolian soil	
(iv)	Pyramid of energy and Pyramid of biomass	
(v)	Artificial ecosystem and Natural ecosystem	
(vi)	Mor humus and Mull humus	
Writ	te short notes on the following (attempt any three):	2 45-14
(i)	Harmful and beneficial effects of fire	3×5=15
(ii)	Forms of water in soil	
	Ecological efficiency	
(iii)		

4.	Bne	metly discuss the following:		
	(1)	Analytical quantitative characters used to study a community.		
	(ii)	The different layers of atmosphere and their significance.		
	(iii)	Nitrogen cycle in the ecosystem.		
5.	(i)	Discuss the various negative interactions among organisms with suitable examples.	8	
	(ii)	With the help of a diagram explain the various stages of Hydrarch succession.	7	
6.	(i)	What is phytogeography? Give an account on vegetation of Delhi.	8	
	(ii)	What is ecological niche? Briefly discuss its various types.	5	
	(iii)	What is the difference between ecotype and ecad?	2	