This	questic	n paper contains 4 printed pages	ş]	
			Your Roll No	
938				
		B.Sc. (Hons.)/III	c	
		BOTANYPaper VIII		
	(P	lant Ecology and Environmental I	Management)	
		(Admissions of 2004 and on	wards)	
Time	: 3 Ha	ours	Maximum Marks: 38	
(Write your Roll No. on the top immediately on receipt of this question paper.)				
		Attempt five questions in all, i	ncluding	
		Q. No. 1 which is compuls	sory.	
		Attempt all parts of a question	together.	
1.	Defin	e any six of the following:	1×6=6	
	(i)	Biosphere		
	(<i>ii</i>)	Soil profile		
	(iii)	Relative humidity		

(iv) Mutualism

(v) Serotiny

(vi)	Edge effect
(vii)	Secondary productivity
(viii)	Resource
(ix)	Benthic Environment
(x)	Endemic species.
Differ	rentiate between any four of the following pairs: 2×4=8
(<i>i</i>)	Tundra Biome and Tropical Forest
(ii)	Renewable and Non-renewable Resource
(iii)	Sand and Clay
(iv)	Sleet and Snow
(v)	Colluvial and Alluvial Deposit
(vi)	r-selection and k-selection.
Write	short notes on any four of the following: 2×4=8
(i)	Thermal stratification
(ii)	Bioindicators
(iii)	Aquifer
(<i>i</i> v)	Photochemical smog
(v)	Global warming
(vi)	Marine pollution.

2.

3.

4. (a) What is succession? How does primary succession differ from secondary succession? List the processes involved in the succession of plant communities.

1+2+1=4

- (b) Give a critical account of wind as a factor in ecology.
- 5. (a) Explain the flow of energy in an autotroph based ecosystem up to the third trophic level.
 - (b) Expand the following abbreviations: 1/2×8-4
 - (i) CITES
 - (ii) NBPGR
 - (iii) UNEP
 - (iv) WWF
 - (v) DNES
 - (vi) CPCB
 - (vii) NEERI
 - (viii) IUCN.

- 6. (a) What is age structure? Describe the different types of age pyramids of populations. 1+3=4
 - (b) Discuss various factors responsible for the present stateof Delhi's environment. What steps have been/shouldbe taken in future to solve the problems?
- 7. (a) What do you understand by plant community? Explain
 Raunkier's Biological Spectrum. 1+3=4
 - (b) Justify the statement, "Radioactive waste is hazardous to ecosystem and needs proper management." 4