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[This	question paper co	ntains 4 printed page	es.]
1303		Your Roll N	Vo
ļ	B.Sc	c. (Hons.)/III	· A
	ВОТА	NY - Paper VIII	
ļ.	(Plant Ecology and	Environmental Mana	gement)
ļ ļ	(Admissions	of 2004 and onward	s)
Time .	3 Hours	Maximum	Marks: 38
, 1		No. on the top immed of this question paper	_
	Q. No. 1	uestions in all, incl which is compulsory ts of a question tog	·. ·
1. (a) Define any two	o of the following:	•
, ,	(i) Keystone	species	
,i	(ii) Homeosta	sis	-
•	(iii) Natality		
. t	(iv) Vegetation	1 .	(1×2=2)
(b) Expand (any t	wo)	•
	(i) IPCC	(ii) MAB	
ļ	(iii) EPA	(iv) IVI	(1×2=2)
i			P.T.O.

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- (c) Give one word of the following:
 - (i) Establishment of plants in a new place.
 - (ii) Instrument used to measure relative humidity of a particular place.
 - (iii) Chemical inhibition of one organism by another.
 - (iv) Transition zone between two different ecological communities. (2)
- 2. Differentiate between any four of the following:
 - (i) Heliophytes and Sciophytes
 - (ii) Ground and Surface fires
 - (iii) Exsitu and In situ Conservation strategies
 - (iv) Gaseous and Sedimentary Cycles
 - (v) Renewable and Non-renewable sources of energy
 - (vi) Primary and Secondary Succession (4×2=8)
- 3. Write short notes on any four of the following:
 - (i) Ecological adaptations of hydrophytes
 - (ii) Noise Pollution
 - (iii) Bioindicators

	(iv) Two methods to measure primary productiv	ity
	(v) Age Pyramids	
	(vi) Tropical biomes (4×2=	=8)
4.	(a) Describe the qualitative analytical characters	of
	plant communities.	(5)
	(b) Discuss the process of succession in a des	sert
	ecosystem.	(3)
5.	(a) Discuss the flow of energy in an autotro based ecosystem. Depict it with an illustra diagram.	
	(b) Discuss the role of any organization environmental management.	jn (3)
6.	(a) What is soil profile? Briefly discuss the fact	tors
	that affect soil formation.	(5)
	(b) Discuss briefly the methods employed Conservation of soil.	in (3)
7.	Write short notes on any four:	
	(i) Polyclimax theory	
	(ii) Biosphere	
	(iii) Photochemical smog	

- (iv) Afforestation
- (v) Thermal stratification

 $(4 \times 2 = 8)$

- 8. (a) (i) Define Climate Change. In what ways it will affect the vegetation cover of any ecosystem? (2½)
 - (ii) Discuss in detail the methods and processes involved in Environmental Impact Assessment (EIA). (2½)
 - (b) Give two examples each of the following:
 - . (i) Plants growing in saline environment
 - (ii) Parasitic plants
 - (iii) Insectivorous plants

 $(1 \times 3 = 3)$