This qu	estion	rpaper contains 4 pri	nted pages.)
		र्थ - होतेत्वकात है	Your Röll No.
1302		e du partir de	9.8.285 ³
4	:	B.Sc. (Ho	ns.)/III
		BOTANY—	Paper VII
	(Pla	ant Systematics an	d Phytogeography)
		(Admissions of 2	
			Committee to the state of the s
Time : 3 Hours			Maximum Marks : 38
		(Write your Roll No. on	the top immediately
		on receipt of this c	question paper.)
		Attempt Five question	s in all, including.
•		Question No. 1 which	ch is compulsory.
1. (a)	Defi	ne the following (any tw	が serjens teer well (代語) の):
			The state of the second
	(i)	Homonym	y to be place to be to be
	(ii)	Syntype	,
	41115		Angel Marie
	(iii)	Taxonomic species	
•	(iv)	Ecotype	and the state of the particular particular particular particular particular particular particular particular p

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(b) Match the taxa in Column A with feature in Column B:

			Column - A		Column - B		
		(i)	Winteraceae	(1)	Epigynous flowers		
		(ii)	Chenopodiaceae	(2)	Monochlamydeous flower	ers	
		(iii)	Asclepiadaceae	(3)	Vesselless family		
		(iv)	Cucurbitaceae	(4)	Pollinia	2	
	(c)	What	t do the following stand	d for	:		
		(i)	Sp. Pl.				
		(ii)	nom. nud.				
		(iii)	nom. cons.				
		(iv)	Wall.			2	
2.	Wri	te sho	rt notes on (any <i>four</i>) :				
	(6)	Princ	Principle of typification				
	(ii)	Theo	ry of continental drift				
	(iii)	iii) Biocode					
	(iv) Concept of primitive flower						
	(v)	Role	of computers in identif	icatio	on of plants.	8	

3.	Differentiate between (any four) is a result of the state
	(i) Cluster diagram and bubble diagram: 2 - mania ?
	(ii) Phylogeny and evolution
	(iii) Homology and analogy
	(iv) Flora and vegetation
	(v) Sympatric and allopatric speciation
	(vi) Taxonomic group and taxonomic category 8
4.	Interpret the following:
	(i) Aponogeton natans (Linn.) Engle & Krause in Pfreich. 24: 11,
	1906
	(ii) Feronia limonia (Linn.) Swingle 1914
	Schinus limonia (Linn.) 1753
	Feronia elephantum Correa 1800
	(iii) Acacia leucophloca (Roxb.) Willd 1806
	Mimosa leucophloea Roxb. 1800 3
5.	Write briefly the salient features of Takhtajan's system of
	classification. Why is it considered a natural system? $6+2=8$
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13	02	(4)	
6.	(a)	What are Adansonian principles ? How are they applicable	i
		numerical taxonomy?	
	(b)	Write a brief account of flora and vegetation of Delhi.	2
7.	(a)	How does the geography of India affect its vegetation? Expla	u
		giving suitable examples.	2

(b) Write a short account of use of cytological or anatomical characters

in taxonomy.

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