6+4

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recent studies.

phyletic and punctuated equilibrium.

2022

BOTANY — **HONOURS**

Paper: CC-8

(Plant Geography, Ecology and Evolution)

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words

		as far as practicable.	
ι.	Ansv	wer any five questions:	
	(a)	What is meant by the carrying capacity of a population?	2
	(b)	Who coined the term 'Biodiversity Hotspot' and when?	2
	(c)	What are epibiotics? Give an example.	1+1
	(d)	Distinguish between macroclimate and microclimate.	2
	(e)	What is climax community?	2
	(f)	What is rhizofiltration?	2
	(g)	Distinguish between sympatric and allopatric speciation.	2
	(h)	What is phylogenetic tree?	2
2.	Ansv	wer any two of the following in brief:	5×2
	(a)	Write a note on the dominant flora of Western Himalaya.	
	(b)	State the criteria for hotspot selection. Name the hotspots spread over Indian subcontinent.	
	(c)	Discuss the role of isolation in organic evolution.	
3.	Ansv	wer any three of the following:	
	(a)	Write a note on community characteristics. Define ecological succession. Distinguish betwee primary and secondary succession citing examples.	een 1+4
	(b)	Briefly explain each one of the following:	
		ecad, ecotype, ecocline, ecotone and niche.	2+2
	(c)	Write a note on <i>ex-situ</i> conservation of plants. Enumerate the role of seed bank cryopreservation in biodiversity conservation.	and 3+3
	(4)	Give an account of Darwin's theory of 'Natural Selection' Discuss Darwiniam in the light	t of

(e) Explain the principles underlying adaptive radiation with suitable examples. Distinguish between