2021

BOTANY — HONOURS

Paper: CC-7

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.

l.	Ans	swer any five of the following:	
	(a)	Define synonym and cite one example.	2
	(b)	Distinguish between syntype and paratype.	1+1
	(c)	Define Omega taxonomy.	2
	(d)	Define plesiomorphy and synapomorphy.	1+1
	(e)	Distinguish between parallelism and convergence.	1+1
	(f)	What is meant by semantide? Give one example.	1+1
	(g)	Mention two important aspects of Botanic gardens.	1+1
2.	Wr	ite brief notes on any two of the following:	5×2
	(a)	Dichotomous key	
	(b)	Holotype and Lectotype	
	(c)	Cytology in relation to taxonomy	
	(d)	Pioneer phase and Consolidation phase.	
3.	Ans	swer any three of the following:	
	(a)	Give an outline idea of Cronquist (1988) system of classification up to subclasses. Mentionerits and two demerits of this classification.	on two 6+2+2
	(b)	Mention the diagnostic characters of the family Leguminosae. Distinguish the subfamilies whelp of suitable characters. Name two plants of economic importance.	7ith the 5+3+2
	(c)	Give diagnostic features of the family Orchidaceae. State its systematic position as treat Bentham and Hooker and Cronquist. Mention two important features of advancement of this	-
	(d)	Compare the floral characters of the families:	
		(i) Labiatae (Lamiaceae) and Scrophulariaceae	
		(ii) Gramineae (Poaceae) and Cyperaceae.	5+5

 5×2

- (e) Write notes on any two of the following:
 - (i) Molecular biological data in Taxonomy
 - (ii) Rules of Effective Publication and Valid Publication
 - (iii) Advance characters of Asteraceae
 - (iv) Primitive characters of Alismataceae.