2020

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.

1. Answer any five of the follo	1.	following:
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•	Alls	swel uny five of the following.	
	(a)	Define Holotype.	2
	(b)	Define taxon and nothotaxon.	1+1
	(c)	Name the largest herbarium in the World. Mention its acronym.	1+1
	(d)	Distinguish between phenetics and cladistics.	2
	(e)	What do you mean by OTU? Give one example.	11/2+1/2
	(f)	What is virtual herbarium?	2
	(g)	What is basionym? Cite one example.	1+1
	Wr	ite notes on any two of the following:	5×2
	(a)	Rules of Priority.	
	(b)	Palynology in relation to taxonomy.	
	(c)	Conditions of valid publications.	
	(d)	Role of herbaria in teaching and research.	

3. Answer *any three* of the following:

2.

- (a) What do you mean by natural system of classification? Give an outline of Bentham and Hooker's System of Classification (1862-1883) up to Series. Mention two merits and two demerits of this system.

 1+5+(2+2)
- (b) Briefly describe the floral morphology of Apiaceae (Umbelliferae) with floral diagram. State the primitive features of the family Magnoliaceae. Give one example of each of these two families.

 4+4+1+1

(c) Distinguish between Musaceae, Cannaceae and Zingiberaceae based on floral characters. Name any one economically important plant each from Musaceae and Zingiberaceae. 8+(1+1)

(d) Compare the androecium characters of Asteraceae, Euphorbiaceae and Cucurbitaceae. Name one economically important plant of each family. 7+3

Please Turn Over

T(3rd Sm.)-Botany-H/CC-7/CBCS (2)

(e) Answer <i>any two</i> of the following	owing:	:
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(i)	Comment on the Biosystematics and the Encyclopedic phase of taxonomy.	21/2+21/2
(ii)	What is neotype? Distinguish it from isotype.	21/2+21/2
(iii)	Role of secondary metabolites in angiosperm taxonomy citing two examples.	21/2+21/2
(iv)	State the Principles of ICN.	5