

'समानो मन्त्रः समितिः समानी' UNIVERSITY OF NORTH BENGAL P. Sa. Honoura Port II Examination, 2022

B.Sc. Honours Part-II Examination, 2022

## BOTANY

## PAPER-IV

Time Allotted: 4 Hours		
	The figures in the margin indicate full marks.	
1.	Answer the following:	2×7 = 14
(a)	Name the usable parts of cotton.	
(b)	Who established Acharya Jagadish Chandra Bose Indian Botanic Garden?	
(c)	Name one cucurbit showing vivipary.	
(d)	Give the full name of the author of 'Bengal Plants'.	
(e)	Mention the alternative names of Poaceae and Apiaceae.	
(f)	Name a monocot family where embryo is undifferentiated.	
(g)	What is life table?	
2.	Answer any <i>two</i> of the following:	$16 \times 2 = 32$
(a)	Characterise the family Orchidaceae. Mention the advanced features of this family. Mention the systematic position of the family.	8+5+3
(b)	Briefly describe one natural system of classification. Mention its merits and demerits.	l 10+6
(c)	Discuss about the ecological adaptations of hydrophytes and xerophytes.	8+8
(d)	Give an account of the phytogeographical regions of India as proposed by D. Chatterjee (1960).	16
3.	Answer any <i>three</i> of the following:	8×3 = 24
(a)	Distinguish between the floral characters of:	4+4
	(i) Acanthaceae and Lamiaceae	
	(ii) Apiaceae and Solanaceae.	
(b)	Write the scientific names and their respective families, usable parts and uses of the following:	s 2×4 = 8
	(i) Tea	
	(ii) Lemon grass	
	(iii) Arjun	

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(iv) Chickpea.

## B.Sc./Part-II/Hons./(1+1+1) System/BOTH-IV/2022

(0	e) Wri	te short notes:	4+4
	(i)	Typification	
	(ii)	Role of Botanic Garden.	
(0	l) Wri	te short notes on the following:	4+4
	(i)	Survivorship curve	
	(ii)	Ecological pyramid.	
(6	·	at is plant succession? Describe briefly different stages of Xerosere with able examples.	2+6

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