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NEPRT-41-2024

FACULTY OF SCIENCE

M.Sc. (NEP) (First Year) (First Semester) EXAMINATION APRIL/MAY, 2024

BOTANY

Paper (SBOTC-403)

(Taxonomy and Argiosperms and Gymnosperms)

Time	e—Three	e Hours Maximum I	Marks—80
N.B.	:— (i)	Question No. 1 is compulsory.	
	(ii)	Of the remaining, attempt any three questions.	
	(iii)	Draw neat and labelled diagrams wherever necessary.	
1.	Write	brief notes on the following:	20
	(a)	Economic importances of gymnosperms.	
	<i>(b)</i>	Taxonomic structure.	
	(c)	Merits and demerits of Bentham and Hooker's classification	n.
	(d)	Applications of molecular systematics.	
2.	(a)	Describe in detail comparative account on Cycadales.	10
	(b)	Explain in detail general account on Pentoxylates.	10
3.	(a)	Describe in detail concept and types of plant speciation.	10
	(<i>b</i>)	Describe in detail theories of origin of Angiosperms.	10
4.	(a)	Describe in detail Englar and Prantl's system of classification	on with its
		merits and demerits.	10
	(b)	Give a detailed account of general characters of family annona	aceae with
		its floral formula and floral diagram.	10
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WT		(2) NEPRT—41—202	4
5.	(a)	Describe in detail Numeral Taxonomy.	0
	(<i>b</i>)	Give a detailed account on Biosystematics.	0
6.	Write	brief notes on the following:	0
	(a)	Classification of gymnosperm proposed by Bhatnagar and Moitr (1996).	a
	(<i>b</i>)	Typological species concept.	
	(c)	Diagnostic characters of family Orchidaceae.	
	(d)	Chemotaxonomy.	