Roll No.

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756302

Jan. 2022 M.Sc. (Botany) - IIIrd SEMESTER Plant Systematics (MBOT-302)

Time: 90 Minutes] [Max. Marks: 25

Instructions:

- 1. It is compulsory to answer all the questions (1 mark each) of Part-A in short.
- 2. Answer any three questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART - A

1.	(a)	Which APG system gave the concept of 'brack	eted
		families'?	(1)
	(b)	What are Taxonomic Keys?	(1)
	(c)	Define Tautonym.	(1)
	(d)	What will be the autonym of Ficus religiosa	var.
		indica?	(1)
	(e)	The latest code of Botanical Nomenclatur	e is
		called code.	(1)
	(f)	The full form of OTU is	(1)
	(g)	DNA barcode region used for animals is	(1)

	(h)	The principles of Numerical taxonomy were developed			
		by (1)			
	(i)	What does the 'X' in the name Quercus X beadle			
		denote? (1)			
	(j)	What is an Isotype? (1)			
		PART - B			
2.	(a)	Define the terms Autonyms, Homonyms with			
		examples. (3)			
	(b)	Explain the 'rule of priority' in botanical nomenclature.			
		(2)			
3.	(a)	What are Apomorphic and Symplesiomorphic			
		characters? (2)			
	(b)	Define the terms Monophyly, Paraphyly and			
		Polyphyly. (3)			
4.		te the economic importance of ANY TWO of the			
	give	en families: Asteraceae, Apocynaceae, Euphorbiaceae,			
	Orc	hidaceae, Polygonaceae. (5)			
5.	Wh	What is the role of Botanic Gardens in the conservation of			
	biod	liversity? (5)			
6.	Wh	What are the basic steps in Phylogenetic Analysis?			
		v can an unrooted tree be converted into a rooted one?			
	,				
		(5)			