

M.Sc. Sem.-1 Examination

403

Botany

March 2022

Time : 2-00 Hours]

[Max. Marks : 50

Instructions:

1. All Questions in **Section -1** carry equal Marks.
2. Attempt any **Three** questions in **Section -1**.
3. Questions in **Section -2** is **compulsory**.

Section - 1

Q – I	A	Root modifications.	7
	B	ICBN	7
Q – II	A	Tools of Taxonomy.	7
	B	BSI	7
Q – III	A	What is Manual in Taxonomy? How it is useful?	7
	B	Phytogeography.	7
Q – IV	A	APG III system of Classification.	7
	B	Role of Keys in Plant Identification.	7
Q – V	A	Embryology in Taxonomy.	7
	B	What is Chemotaxonomy? Describe it.	7
Q – VI	A	Describe: Dendrograms and Cladograms	7
	B	Give names of Botanical Gardens of Western India and Describe its role in applied taxonomy.	7
Q – VII	A	Which technique is used for preparation of Aigai Herbarium? Explain role of Herbarium in plant taxonomy.	7
	B	Anatomy in Plant Taxonomy.	7
A – VIII	A	Explain Digital Database.	7
	B	Importance of Trichomes and Stomata with reference to Plant Taxonomy.	7

PTO

N 282 - 2

Section – 2

Q – IX	MCQs	8
1	Taxonomy is not connected with a) Identification of organism b) Nomenclature	1
	b) In-vitro culture d) Classification	
2	Who gave the dynamic concept of species? a) Lamarck c) John Ray	1
	b) Linnaeus d) Julian Huxley	
3	Karyotaxonomy is based on a) Organic evolution c) Morphological characters	1
	b) Number of chromosomes d) Chemotaxonomy	
4	Alpha Taxonomy is related to a) Phylogeny c) Cytotaxonomy	1
	b) Chemotaxonomy d) Classical taxonomy	
5	The principles of Numerical taxonomy were developed by a) Sneath And Sokal c) Takhtajan	1
	b) Engler and Prantl d) Cronquist	
6	Southern circle of BSI situated at a) Port Blair c) Coimbatore	1
	b) Chennai d) Bangalore	
7	<i>Madhuca indica</i> plants belongs to family a) Solanaceae c) Sapotaceae	1
	b) Moraceae d) Musaceae	
8	The largest herbarium of the world in located in a) Berlin c) Kolkata	
	b) New York d) Kew	
