2023

M.Sc.

Third Semester

DISCIPLINE SPECIFIC ELECTIVE - 01

BOTANY

Course Code: MBOD 3.11(A) (Plant Systematics)

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	Total Mark: 70 Pass Mark	
Tir	me: 3 hours	
An	aswer <u>five</u> questions, taking <u>one</u> from each unit.	
	UNIT-I	
1.	Discuss the various experimental categories in the study of biosystematics.	4
2.	Describe the different mode of additive speciation.	4
	UNIT-II	
3.	Differentiate between the terms with appropriate examples: 7×2=1 (a) Homology and analogy (b) Parallelism and convergence	4
4.	Describe a phylogenetic diagram. Explain the types of phylogenetic diagram. 8+6=1	4
	UNIT-III	
5.	 (a) Discuss in what way an outbreeding and an inbreeding species are considered in a phylogenetic classification. (b) Write a note on how hybrids established themselves in nature. 	
6.		8
	(b) What do you mean by Darwin fitness? Elaborate.	6

UNIT-IV

7.	Discuss the three aspects that are considered to understand the origin			
	and evolution of angiosperm.	14		
8.	Write a summary on the following: (a) Origin of monocot(b) Basal living angiosperms	7×2=14		
UNIT-V				
9.	Enumerate on the following: (a) The role of embryology in solving taxonomic problem (b) The role of anatomy in solving taxonomic problem	7×2=14		
10.	Write an account on the following:(a) The systematic value of chemotaxonomy(b) The systematic value of molecular data	7×2=14		