

## DEPARTMENT OF MCA

<b>Class</b>	: I MCA - II SEM [B & C Sections]	<b>AY:</b> 2023-24
<b>Course Title</b>	: Data Structures (21MC201)	
<b>Faculty</b>	: Mrs.M.SANTHI	<b>Branch:</b> MCA

S.No	Question	CO	BTL	Marks
<b>MODULE – I</b>				
1	What is Data structure and Explain its Classifications of Data structure?	1	1	12
2	a. Classify Linear and Non Linear Data Structures b. Explain some applications of Data Structures?	1	2	8+4
3	a. What is an Algorithm and need of an Algorithm? b. Explain analysis of an algorithm?	1	1	6+6
4	Explain Asymptotic Notations?	1		12
5	What is an Array and Explain representation of data in Arrays with an example?	1	1	12
6	a. Define Array ADT. b. Explain basic operations supported by an array with program example.	1	1	4+8
7	Explain Linear Search technique an algorithm with an example?	1	1	12
8	Explain Binary Search technique an algorithm with an example?	1	1	12