B.C.A. (2010 Course Sem- VI: SUMMER - 2019 SUBJECT: DATA STRUCTURES

Day Date	:	Monday 22/04/2019	S-2019-2110	Time: 10.00 AM TO 01 Max. Marks: 70.	.00 PM
N.B.	: 1) 2) 3)	Q.1 is COMPULSOR Attempt any FOUR qu Figures to the RIGHT	estions from Q.2 to Q.7.		
Q.1		What is Data Structure? Ex	xplain types of data structure	e in detail.	[14]
Q.2		Write binary search algor Search Algorithm.	ithm and calculate the tim	e complexity of Binary	[14]
Q.3		Write a program to delete a	a node from linked list.		[14]
Q.4		Write Short note (ANY TV	WO)		[14]
	a)b)c)	Abstract Data Type Binary search algorithm Quick sort algorithm			
Q.5		Write the following C func createstack(), clearstack(),	tion for linked stack stackfull(), stacknull(), popr	node().	[14]
Q.6		obtain the worst case and a	ting the list of Integer using verage case time complexity or the following key sequences 76.	y of the algorithm. Show	[14]
Q.7		Write a program to read an	Integer array and perform l	inear search.	[14]