	Enrollm	ent No:		Exam Seat No:				
		_		UNIVERSITY				
	Winter Examination-2019							
	Subject	Name : I	Data Structure Using C					
	Subject Code: 4CS04DSC1			Branch: M.Sc. C.A. & I.T. (Integrated)				
	Semeste	r:4	Date: 17/09/2019	Time: 02:30 To 05:30	Marks: 70			
	(2) (3)	Use of Pr Instructio Draw nea	ogrammable calculator & any ons written on main answer bout diagrams and figures (if new outable data if needed.		rohibited.			
Q-1		Attemp	ot the following questions:		(14	)		
	a) b) c) d) e) f) j) k)	Define What is Define Define What is Define What is Define Write the	s sorting? Data. Structure. Search. Algorithm? Pointer. Function. he applications of queue.		1 1 1 1 1 1 1 2 2			
Atte	mpt any	four que	stions from Q-2 to Q-8					
Q-2	A B	Explair	ot all questions n malloc() and calloc() with e n singly linked list with exam	<u>=</u>	(14 7 7	)		
Q-3	A B	Write a	ot all questions n algorithm to check whether n Bubble sort with example.	r the number is prime or not.	(14 7 7	)		
Q-4	A B	Write a	ot all questions note on Space and Time con a various tree traversals with		(14 7 7	)		



Q-5	Attempt all questions		
$\mathbf{A}$	Explain various types of Array with examples.	7	
В	Write a note on Pointers.	7 (14)	
Q-6	Attempt all questions		
$\mathbf{A}$	What is Stack? Explain stack operations with examples.	7	
В	What is Queue? Explain queue operations with examples.	7	
Q-7	Attempt all questions	(14)	
$\mathbf{A}$	Explain Big-O notation.	7	
В	Explain primitive and non-primitive data structures.	7	
Q-8	Attempt all questions	(14)	
$\mathbf{A}$	Explain Doubly linked list with example.	7	
В	Write a note on Circular queue.	7	

