	Enrollment No:	
Subject Name: Advanced C & Data Structure  Subject Code: 4CS02IDS1  Branch: B.Sc.IT.  Semester: 2  Date: 09/05/2016  Instructions:  (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed.  Q-1. Attempt the following questions:  1. Recursion is implemented using  (a) Queue  (b) Stack  (c) Tree  (d) none of these  2. FIFO algorithm is followed in  (a) Stack  (b) Queue  (c) Tree  (d) Linklist  3. Which of the following is not type of linked list?  (a) Binary  (b) Doubly  (c) Circular  (d) Header  4. In which case the malloc() or calloc() will return NULL?  (a) Memory overflow  (b) memory underflow  (c) Memory reallocation  (d) none of these  5. The process of arranging data in logical order is called  (a) Sorting  (b) searching	C.U.S	SHAH UNIVERSITY
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6.	There are types of files available	e.		
	(a) 2	(b) 3		
	(c) 4	(d) 7		
7.	If we have a pointer declare as double *p; then p will occupyBytes			
	(a) 8	(b) 4		
	(c) 2	(d) 10		
8.	Two dimensional arrays are also called?			
	(a) table array	(b) Matrix array		
	(c) Both a and b	(d) none		
9.	Which of the following data structures is no	n-linear type?		
	(a) Strings	(b) Lists		
	(c) Stacks	(d) none		
10.	. Which of the following sorting algorithms is	s divided of conquer type?		
	(a) Bubble sort	(b) Insertion sort		
	(c) Quick sort	(d) All of Above		
11.	. An algorithm that calls itself directly or indi	rectly is known as		
	(a) sub algorithm	(b) recursion		
	(c) publish notation	(d) traversal		
12.	Function is used to get the position	of file pointer.		
	(a) fseek()	(b) fopen()		
	(c) ftell()	(d) fclosed()		
13.	. Which of the following name does not relate			
	(a) FIFO List	(b) LIFO List		
	(c) Files	(d) Push down		
14.	Free() is used to			
	(a) Stack	(b) Heap		
	(c) Permanent Memory	(d) release memory		





Attempt any four questions from Q-2 to Q-8					
Q-2. At	tempt all questions.				
6	Explain Binary search with example.	(07)			
ŀ	Explain insertion sort in details.	(07)			
Q-3. At	tempt all questions.				
á	Explain Bubble sort with example.	(07)			
ł	Explain Linear search.	(07)			
Q-4. At	tempt all questions.				
6	Explain deletion process of node from doubly linked list.	(07)			
l	Explain stack with push & pop operations.	(07)			
Q-5. At	tempt all questions.				
6	Explain doubly linked list with insert operation.	(07)			
ŀ	Explain Linear and non-linear data structure.	(07)			
Q-6. At	tempt all questions.				
_	Explain Queue with insert and delete operations.	(07)			
l	What is graph? Explain adjacency matrix in details.	(07)			
Q-7. At	tempt all questions.				
	Write a C program of binary tree with any Post traversal method.	(07)			
l	Write a C Program of merge sort.	(07)			
Q-8. At	tempt all questions.				
_	Write a C program of Quick search.	(07)			
ŀ	Write a C Program to create and display doubly linked list.	(07)			



