Set No. 2 **R07** Code No: R07A1EC01 I B.Tech Examinations, June 2011 C PROGRAMMING AND DATA STRUCTURES Common to CE, CHEM, BME, IT, AE, BT, ICE, E.COMP.E, ETM, E.CONT.E, EIE, CSE, ECE, CSSE, EEE Time: 3 hours Max Marks: 80 Answer any FIVE Questions All Questions carry equal marks **** 1. Define Structure and write the general format for declaring and accessing members. [16]2. How the data is searched in sequential files? Mention the different techniques used with an example. [16]3. (a) Explain briefly about the History of 'C' language (b) What is the general structure of 'C' program and explain. [8+8]4. (a) Write a program to evaluate the average of the values in an array. (b) Write a program to delete an element from an array. [8+8]5. (a) What is a network? (b) What is a spanning tree? (c) Define minimal spanning tree. (d) What are the various traversals in a tree? [16]6. (a) Compare function and recursive function. (b) Explain the concept of function. [8+8]7. Define doubly linked list. Write a program in C to perform the following operations in a doubly linked list. (a) Insert (b) Delete (c) Display. [16]

8. Write the algorithm for Merge sort and explain the same with an example. [16]

Code No: R07A1EC01

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R07

Set No. 4

 $\mathbf{R07}$

Set No. 1

I B.Tech Examinations,June 2011 C PROGRAMMING AND DATA STRUCTURES Common to CE, CHEM, BME, IT, AE, BT, ICE, E.COMP.E, ETM, E.CONT.E, EIE, CSE, ECE, CSSE, EEE

Time: 3 hours

Code No: R07A1EC01

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

1.	(a)	(a) Compare function and recursive function.		
	(b)	Explain the concept of function.	[8+8]	
2.	How with	the data is searched in sequential files? Mention the different techniques an example.	s used [16]	
3.	(a)	Explain briefly about the History of 'C' language.		
	(b)	What is the general structure of 'C' program and explain.	[8+8]	
4.	Writ	te the algorithm for Merge sort and explain the same with an example.	[16]	
5.	Defi	ne Structure and write the general format for declaring and accessing mer	nbers. [16]	
6.	(a)	Write a program to evaluate the average of the values in an array.		
	(b)	Write a program to delete an element from an array.	[8+8]	
7.	Defin in a	ne doubly linked list. Write a program in C to perform the following oper doubly linked list.	ations	
	(a)	Insert		
	(b)	Delete		
	(c)	Display.	[16]	
8.	(a)	What is a network?		
	(b)	What is a spanning tree?		
	(c)	Define minimal spanning tree.		
	(d)	What are the various traversals in a tree?	[16]	

Code No: R07A1EC01	$\mathbf{R07}$	Set No. 3			
I B.7 C PROGRAM Common to CE, CHEM E.CONT Time: 3 hours Ar All C	Tech Examinations, Jur IMING AND DATA S M, BME, IT, AE, BT, .E, EIE, CSE, ECE, C Iswer any FIVE Quest Questions carry equal *****	ne 2011 STRUCTURES ICE, E.COMP.E, ETM, 2SSE, EEE Max Marks: 80 ions marks			
1. Define Structure and writ	te the general format for d	eclaring and accessing members. [16]			
2. Write the algorithm for I	Merge sort and explain th	e same with an example. [16]			
3. (a) Compare function a	nd recursive function.				
(b) Explain the concept	; of function.	[8+8]			
 4. Define doubly linked list. in a doubly linked list. (a) Insert (b) Delete (c) Display. 5. (a) What is a network? (b) What is a spanning (c) Define minimal span 	vrite a program in C to 'tree? anning tree.	[16]			
(d) What are the variou	is traversals in a tree?	[16]			
6. (a) Explain briefly about(b) What is the general	it the History of 'C' lange structure of 'C' program	and explain. [8+8]			
7. (a) Write a program to	evaluate the average of t	he values in an array.			
(b) Write a program to	delete an element from a	n array. [8+8]			
8. How the data is searched with an example.	in sequential files? Ment	ion the different techniques used [16]			
