Code No: R07A1EC01

with example.

I B.Tech Examinations, May/June 2012 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

[16]

 $\mathbf{R07}$

Answer any FIVE Questions All Questions carry equal marks

1.	Explain the representation of a binary search tree using array.	[16]
2.	(a) What is the difference between structures and Union?	
	(b) Write a program to store three records in one structure.	[8+8]
3.	(a) Explain briefly about the History of 'C' language.	
	(b) What is the general structure of 'C' program and explain.	[8+8]
4.	Write a program to implement complex numbers subtraction and division pointers and write the results to a data file.	using [16]
5.	(a) What are the advantages of using pointers?	
	(b) Write short notes on pointer to void.	[8+8]
6.	Write a program to insert and delete elements in a sorted circular queue.	[16]
7.	What is a function? What are the different types of functions? Explain fur with no argument and no return type with an example.	nction [16]
8.	Which searching technique uses the sorted array as the input elements? Ex	xplain
