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## Code No: 53023 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, March - 2017 DATA STRUCTURES THROUGH C++

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		D	ATA STRUCTURES T (Common to CS	HROUGH C E. IT)	C++		
	Time:	3 hours	(30111111111111111111111111111111111111		Ma	Max. Marks: 75	
	**** *** *** * ** * * * * * * * * * *	RE	Answer any five of All questions carry e	juestions qual marks	****	RØ	
	1.a) b)	Write a program	tor? Explain the different to declare three classes. I orm addition of two data on.	Declare intege	er array as da	ita member in	RO
	2.a) b)	Define function overloading. Write a program to illustrate by finding the area of circle, square, rectangle and triangle.  [7+8]  Convert the infix expression a/b-c+d*e-a*c into postfix expression. Write a function to evaluate that postfix expression and trace that for given data a=6, b=3,					RO
	b)	c=1, d=2, e=4. Give the limitat Explain the san circular quene us	ions of ordinary queue ane. Explain with suitable sing dynamically allocate	and how it is e example ho d'arrays.	s solved in sow would y	circular queue.	RB
	4.a) b)	Explain about the Explain about the	te operations of skip list was the Hash functions in detail	vith an examp l.	le.	[8+7]	
manual Managara	5.a)	Explain about the Write a function	e Multiway merge with a to delete an element from	n example.	**************************************	[8+7]	**** **** **** * * * * * * * * * * * *
	6.a) b)	Write a function for rotations of AVL tree.  Explain the deletion operation of binary search tree with an example.				le. [8+7]	æ /
)	7.a) !b)	Write a function	tween BFS and DFS with to insert an element into	the B-Tree.	****	[7+8]	**************************************
	8.a)	Consider the text = "ramaniikesmangores" and the pattern = "mangores" KMP.					
	b)	Explain about the suffix trie with an example.				[7+8]	
	**************************************	RE	ooOoo		****	RØ	****