Ro	II N	o Total Pages : 2	
95	115	with a draw war work best bases of her 8503	
		BT-3/D05	1
¥		DATA STRUCTURES(Common with CO, IT)	
		(According to Syll. De., 04)	
		PAPER - CSE-203E	
Tin	ne :	3 Hrs. Maximum Marks : 100	
No	te:	Attempt any five questions.	
1.	a.	Define Array and its Types. How they are represented	
		into computer memory ? . 5	
	b.	Write a Algorithm to convert infix expressin into postfix	
		and also explain it by taking the example :	
	30	(A + B) * D + E / (F+ A * D) + C 15	
2.	a.	Write a C program to implement the stack operations.12	
	b.	Write a C program to search a element into a two-	77.
		dimensional array. 8	
3.	a.	Discuss the advantages and disadvantages of linked list	1
		over array. 5	
	b.	Explain priority queue and its advantages. 5	
	c.	Explain circular queue. Also write the Algorithm for	
		deletion of an element from circu'ar queue. 10	
4.		Write algorithms in insert, delete and search an element	
		from Queue which is implemented using doubly linked	
3		list. 20	
5.	a.	Discuss Threads Trees. What are the advantages of	-
		threaded tree explain with example ?	
	b.	What is Binary tree ? What are the various methods to	
		traverse a binary tree ? Explain them with examples.	1

(3th sem. Electronic+ Math/Eco.)

1 t a	write an algorithm of any one method.	12
6. a.		1 0 0
10.00	(i) Degree of a Tree	
	(ii) Height of a Tree	
	(iii) External and Internal modes	1+2+2
b.		11212
	(i) Binary search tree	
	(ii) AVL Tree	gija gunit
	(iii) B ⁺ Tree	3 x 5 = 15
7. a.	Explain the various techniques to represent	3 x 5 = 15
5 - 343	in Computer memory.	
b.	Define Graph ? Write BFS Traversal Alg	5
4	traversing a graph and also explain it with an	orithm for
8. a.	What is hash function ? When the perfect	example.5
A B	function are feasible ?	
b.	Explain the quick sort technique by using the	5
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	25 01 10 07 92 88 33	15
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