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SUBJECT CODE NO:- B-2042

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. S.Y. (Sem-III) Examination Oct/Nov 2019

Computer Science Code -CS08 Data Structures

		Data Structures	0,00,4300			
[Time	: 1:30	Hours]	x.Marks:50]			
		Please check whether you have got the right question paper.				
N.B		1) All questions are compulsory.				
		2) Illustrate answer with suitable example.				
			500000			
Q.1	a)	Explain linear search with it's algorithm and example.	10			
	b)	b) Describe recursion using factorial function.				
	c)	c) What is stack? Explain PUSH and POP operations on stack.				
	d)	d) What is infix, polish and reverse polish notation to represent arithmetic expression? Explain in detail.				
Q.2	a)	a) What is linked list? Explain inserting element in linked list.				
	b)	What is queue? Give memory representation of queues.	10			
	Write short notes (any four)					
	a)	Quick sort				
	b)	Entity and attributes				
	c)	Record structure				
	d)	Bubble sort				
	e)	Dequeue				
	f)	Recursion				
Q.3	Multip	ple choice questions.	10			
2		refers to single unit of values.				
2500		a. Data item b. Database c. Array d. Node				
Policy Constitution	2.	An entity always has come				
	O OF THE	a. Records b. Attributes c. Data items d. All of the above				
Sign Pr	3.	In stack, elements are added from				
The fight		a. Top b. Bottom c. Any position d. None of the	ese			
	4.	Examples of reverse polish notation is				
3000 F	8 07 A	a. A+B b. +AB c. AB+ d. None of above				

5.	Accessing and processing each data item exactly once is called.						
	a. Traversing	b. Sorting	c. Both (a) & (b)	d. None of these			
6.	search algo	orithm is extremely efficion	ent in searching item in	sorted array.			
		b. quicksort	00=00				
7.	In linked list, node	is made up of					
		b. Link field		d. Both (a) & (b)			
8.	A data structure is model of a particular organization of data.						
		b. Mathematical					
9.	data structure is suitable for recursion.						
	a. Queues	b. Linked list	c. Stack	d. Array			
10	. In two way linked	list, each node is, divided	d into parts.				
	•	h Two S	D, Y, N. D. O', YK, Un and Tolk Oly	d four			