

BACHELOR OF SCIENCE (INFO. & TECH.) Examination BSCIT SEMESTER-2 APRIL 2025 ( Regular ) APRIL - 2025

	5501. SEVIESTEICZ AI KIE 2025 ( Regular ) Al KIE 2025		
10	CS-08: DATA STRUCTURE USING C LANGUAGE	10	
N	FacultyCode: 017	728129	
4	Subject Code: 24CS-BSIT-MA-02-03001	00	
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Time: 2 Ho	ms)	0	
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2	<u>~</u>	Canadianeer	3
O. Time 20125 Ho	Attempt following.		
	is symbol of big omega.		
	2. is used to get file pointer position.		
÷.	3. What is algorithm?	35	2
o E(B)			5
Q.E(P)	Explain classes of algorithm OR	8	
0.500)	N OK		3
72	Explain time complexity.  Explain classes of algorithm  OR  Attempt following	RAJ01072812	
$Q.\mathcal{L}(A)$	Attempt for owns	9	
0	1 function is used to move file pointer at the BOF.	Ž	
3	2 What is FILE?	ac	2
2	3. Explain putw().		5
6. BRAJ01(\$72	Explain fseek().		J
Q.1 (C)	Explain big oh and big omega notation.		3
	a 11 - 1 mg	10	-
Q.2 (A)	Attempt following	RAJ010728125	
25	1. What is searching?	$\tilde{\omega}$	
Manual Property and the Person of the Person	2 Write down complexity of Charithm	72	2
28	2 Manage COFI IOIIOWS	0	2 ~
Q.2 (B) Q.2 (C) Q.2 (A)	Write down algorithm of linear search.	-	5
Q. <del>2 (</del> C)		3	
9	Write a program of Bliary SO OR  Attempt following	\$	3
0.2 (A)	Attempt following		
02	1 '		
	<ol> <li>List out sorting technique.</li> <li>is known as bin sort.</li> <li>is fastest sorting technique.</li> </ol>		
	3. is fastest sorting technique.		2
Q.2 (B)	Write a program of bubble sort.		5
Q.2 (C)	Explain quick sort with Program.		
. (-)			

Q.3 (A)	Attempt following	3	
	<ol> <li>List out operation of stack</li> <li>List out types of queue.</li> <li>What is priority queue?</li> </ol>		
Q.3 (B)	Explain DEQue.		
Q.3 (C)	What is stack? Write a program of stack for push(),pop() and display () operation	2 nn -	
25	U) OR	711. 5	
6.50 6.50 7.50 7.50 7.50 7.50 8.50 8.50 8.50 8.50 8.50 8.50 8.50 8	Attempt following  1. LIFO stands for		
2	00	3	
07	<ol> <li>LIFO stands for</li> <li>FIFO stands for</li> </ol>		
	3. DEQue stand for		
Q.3 (B)	Difference between stack and queue		
Q.3 (C)	What is data structure? Explain types of data structure.	2	
liveral comp	The state of the s	5	
Q.4 (A)	Attempt following	3	
	1 linked list travers in forward direction only.		
2	2. What is node?		
2	3. Linked list is type of data structure.		
Q.4 (B)	How to check linked list is empty?	2	
Q. <del>{</del> (C)	How to check linked list is empty?  What is linked list? Explain singly linked list with create() and display()  OR  Attempt following  1. List out types of linked list. 2. What is linked list. 3 linked list trayers in both direction	5	
RAJO#07	OK CONTRACTOR OF THE CONTRACTO		
Q.4TA)	Attempt following	3	
7	1. List out types of linked list.		
	2. What is linked list.		
	in ooth direction.		
Q.4 (B)	Explain header linked list.	2	
Q.4 (C)	What is linked list? Explain doubly linked list with create() and display() 5		
Q.5(A)	Attempt following		
£072812		3	
$\infty$	1. What is tree? 2. What is leaf node? 3. What is root node?		
1	3. What is root node?		
Q.5 (B)	Difference between DFS and DFS		
Q.5(C)	What is Binary search tree? Explains on	2	
Ä	1. What is tree? 2. What is leaf node? 3. What is root node?  Difference between DFS and BFS  What is Binary search tree? Explain different types of tree traversal method.  OR	5	
Q.5 (A)	Attempt following		
	$\Omega$ C.	3	
	<ol> <li>What is graph?</li> <li>Graph is type of data at</li> </ol>		
	2. Graph is type of data structure.  3 order gives sorted list in tree traversal  Difference between binser type of data structure.		
Q.5 (B)	Difference between binary tree and binary search tree.		
Q.5 (C)	Explain graph representation method.	2	
		5	