

BACHELOR OF COMPUTER APPLICATION Examination BCA SEMESTER-2 APRIL 2025 (Regular) APRIL - 2025

	APRIL 2025 (Regular) APRIL - 2025		
S	CS-08: DATA STRUCTURE USING C LANGUAGE	C	
9	Faculty Code: 017	20	
Time: 2 Hour Q.1 (A)	Faculty Code: 017 Subject Code: 24CS-BCAP-MA-02-03001	- I	
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Time: 2 Hour	[z]	Total Ma	rks : 50
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2	\lesssim	X	2
$Q.\overline{I}(A)$	Explain time complexity.		5
Q.1 (B)	Explain space complexity.		2
Q.1 (C)	Explain Big Omega notation in detail.		5
	OR	O	
0.1-(A)	What is command line argument? Explain with suitable example.	RAJ010721942	3
0.P(B)	Explain Big-Oh notation.	7	2
Q. ((C)	What is algorithm? Explain various types of algoritms.	2	5
4.(6)		0	3
Q. 2-(A)	Explain fopen(),fclose(),fscanf() with suitable syntax.	Comp	2
Q.2(B)	Explain bubble sort with suitable example.		5
Q.2 (C)	Write an algorithm of quick sort. OR	OZ.	
Q.2 (A)	Explain insertion sort with suitable example.		3
Q.2 (R) Q.2 (B)	11 - 14-1-10 aromnle		2
Q.2 (C)	for the contract cont		5
0.2(0)	(N	721942	3
Q.3 (A)	What is searching? Explain binary search with algorithm.	2)	2
Q.3 (B)	Give the difference between primitive and non premitive data structure.	72	5
Q.B.(C			
9		2AJ010	3
Q.5-PA	Write a program to perform bubble sort.		2
Q.3 (E		R	5
Q.BIC	Write a program to perform selection sort.		
0.4(A) What is stack? Explain its various operation.		3
Q.4 (A Q.4 (A	o Familia various operation		2
Q.4 ()	0. Familia its viggious operation		5
	OR		
Q.4 ((A) Write an algorithm of push and display operation of stack.		3
Q.4			2

Q.4 (C)	Explain recursion of stace	ck.				
0.5 (A) 0.5 (B) 0.5 (C) 0.5 (B) 0.5 (C)	Write a short note on sing Explain header link list was Write a short note on door What is tree? Explain var What is binary tree? Explain was What is graph? Explain was a graph? Explain was a graph? Explain was a graph?	vith suitable ble link list. rious propert	OR y of tree.	suitable exa	ımple.	RAJ010721942
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