

WALCHAND COLLEGE OF ENGINEERING

(Government Aided Autonomous Institute)

Visharambag, Sangli - 416415 Second Year B.Tech. Computer Science & Engineering MSE, ODD SEMESTER, AY 2023-24

Data Structures (6CS202)



MSE

& Date: Saturday, 23/09/2023 Time: 3.00 pm to 4.30 pm PRN:

Max Marks

IMP:	verify that you have	received annual		
tructio	a) All questions are	compulsory.	papers with correct	course code, branch etc.

- b) Writing question number on answer book is compulsory otherwise answers may not be
- c) Assume suitable data wherever necessary.
- d) Figures to the right of question text indicate full marks.
- e) Mobile phones, smart gadgets and programmable calculators are strictly prohibited.
- f) Except PRN anything else writing on question paper is not allowed.
- g) Exchange/Sharing of stationery, calculator etc. not allowed.

		y savediment etc. not anowed.		
cx	t on 1	the right of marks indicates course outcomes (Only for faculty use)	Mark	ks
1		Differentiate between Algorithm and Pseudocode. Write Pseudocode to sort N number of elements.	6	CO2
	B)	Analyze the time complexity of recursive function for the problem Tower of Hanoi.	4	C03
	A)	Illustrate Insert operation algorithm on Doubly Linked List.	6	CO1
	B)	Write an algorithm to reverse a given Linked List.	4	C02
	Carlon B	After performing the following set of operations on Double Ended Queue, what will be the contents of Double Ended Queue? InsertFront (10); InsertFront (20); InsertRear (30); DeleteFront (); InsertRear (40); InsertRear (10); DeleteRear (); InsertRear (25); Display (); For expression to a postfix expression.		2
d	B)	Convert the following infix expression to a postfix expression. $(A + (B/C - (D \land E/F) \bullet G) \bullet H)$		
	0) 1	Describe types of Oucues in detail.		4
	-5	End of question paper		

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