

Samridhi Sarwajanik Charitable Trust's

JHULELAL INSTITUTE OF TECHNOLOGY An Autonomous Institute affiliated to RTM Nagpur University

Department of Computer Science & Engineering Department of Computer Space & Engineering
Off Koradi Road, Lonata, Pagpur - 431131.

E Mail ID: admin@jitnagpur.edu.in
Vebsite: www.jitnagpur.edu.in
Vebsite: www.jitnagpur.edu.in
Vebsite: Www.jitnagpur.edu.in
Computer Science & Engineering Department through
Quality Education, Industry alliance & Collaborative Research



Continuous Assessment Examination - I Session: 2024-25 [Odd-24]

Branch: CSE

Course Name: Data Structure and Program Design

Date of Examination: 12/8/2024

Time: 1.5 hrs

Semester: 3

Course Code: CSPC202T

Max. Marks: 30 Marks

Instructions to candidate:

a) All questions carry marks as indicated

b) Assume suitable data wherever necessary.

1A	What is Algorithm? List the characteristics of	(BL-1,2) (CO-1	6M
	algorithm. Explain the listed characteristics with the)	200
	help of Linear search Algorithm.	4	2
X.B	Develop a program to implement Binary Search.	(BL 3) (CO1)	aM E
	OR	17	(n)
2.A	Explain Asymptotic Notations in detail	(BL2)(CO-1)	óΜ
2.B	Develop a program to implement Selection Sort.	(BL 3)(CO-1)	φM
	1		<u> </u>
3.A	Develop a Menu driven program in C to insert element,	(BL 3) (CO2)	6M
	delete element and display stacks.		
3.B	Convert Following Infix Operation to its equivalent	(BL 3) (CO2)	6M
	postfix form using stacks- A+B/C/D^E*F*G-H		
	OR		
4.A	Explain with example the concept of Insertion &	(BL 5) (CO-2)	6M
	Deletion in Linear Queues.		
4.B	Explain-	(BL 2)	6M
	a)Circular Queue b)Priority Queue	(CO-2)	1820
		(0-2)	93,5