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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 09-10-2025

Time: 11.45am to 01.15pm

School: SOCSE	Program: B.TECH	
Course Code : CSE2253	Course Name: Data Structures	
Semester: III	Max Marks:50	Weightage:25%

CO - Levels	C01	C02	C03	C04	C05
Marks	26	24			

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	What is the difference between Array and Structure	2 Marks	L1	C01
2	What is the difference between Static and Dynamic Memory allocation	2 Marks	L1	C01
3	How can be pointer be declared and accessed in a Program	2 Marks	L1	C01
4	List the Applications of Stack	2 Marks	L2	C02
5	List the Applications of Queue	2 Marks	L2	C02

PART B

Answer the Questions.

Total Marks 40M

6.	a.	Explain Structures and Union taking ur own Example	10 Marks	L1	C01
Or					
7.	a.	Write a Program to Reverse a String and check whether is Palindrome or not	10 Marks	L1	C01

8.	a.	What is Data structure? Give the Classification of data Structure	10 Marks	L1	CO 1
Or					
9.	a.	Explain the Concept of Recursion taking an example	10 Marks	L1	CO 1

10.	a.	Convert the following infix to Postfix Expression i) $A*(B+C)/D$ ii) $(A+B)/(C-D)-(E*F)$	10 Marks	L2	CO2
Or					
11.	a.	Evaluate the given Postfix Expression $10\ 5\ +\ 60\ 6\ /\ * \ 8-$	10 Marks	L2	CO2

12.	a.	Explain how Enqueue, Dequeue can be implemented in Queue	10 Marks	L2	CO2
Or					
13.	a.	Explain how the disadvantage of Queue can be Overcome by using Circular Queue	10 Marks	L2	CO2