

End Term Exam October -2023

Class: **S.Y.B.Sc. (Computer Science)**

Semester: III

Subject Code & Name: **(CS-231) Data Structure and Algorithm I**

Max. Marks: 35

Time: 2 Hour

Instruction: (1) All questions are compulsory.(2) Figures to right indicate full marks.

Q 1) Attempt any Eight of the following. (CO1)

[8*1=8]

- Define ADT.
- Define Data object.
- Define Recursion.
- Define Data & Information.
- List any two applications of stack.
- What is time complexity of merge sort?
- "Linked list can only be traversed sequentially" state true/false. Justify.
- State the principle used in 4-queen
- Round-robin algorithm is example of which type of queue?
- Write a node structure of doubly linked list.

Q 2) Attempt any Four of the following.

[4*2=8]

- Explain Application of Queue. (CO2)
- Explain Internal, External, Stable, In-place Sorting. (CO2)

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- Define Deque. List types of Deque. (CO3)
- Explain characteristics of algorithm. (CO1)
- What is divide and Conquer strategy. (CO3)

Q 3) Attempt any Two of the following.

[2*4=8]

- Radix sort with example.(CO2)
- Define Linear search. Explain Sentinel search in detail. (CO2)
- Convert following expression to equivalent postfix and prefix notation. (CO3)

1. $(A * B + \{ C / D \}) - F$

2. $A - B / \{ C * D ^ E \}$

Q 4) Attempt any Two of the following.

[2*4=8]

- Explain primitive operation performed on stack (CO2)
- Explain Circular Queue in detail. (CO3)
- Write a 'C' functions to reverse the content of string using stack. (CO3)

Q 5) Attempt any One of the following.

[1*3=3]

- Explain types of Linked list. (CO3)
- Write a short note on Polynomial Manipulations. (CO1)

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