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EC 8393 Fundamentals of Data Structures in C Important 13mark questions

Unit I

- 1. Write a C program to get a 4-digit number and display the reverse of the same number.
- 2. Examine the various data types in C with an example.

Unit II

- 1. Illustrate pass by value and pass by reference in functions with an example.
- 2. Differentiate the data types, structures with unions.

Unit III

- 1. What is a linked list? Examine the various types of linked list creations with their operations in C.
- 2. How expression evaluation is done using stacks? Illustrate it with an example.

Unit IV

- 1. Write a C program to insert set of numbers in a binary search tree and display the content of the same with in-order traversal.
- 2. Explain set representation and Union. Find operations with suitable examples.

Unit V

- 1. Write a procedure to search for a number among the given set of numbers using Linear and binary search algorithms and compare and contrast both with an example including time complexity.
- 2. How 2-way merge sort helps in sorting a given set of numbers in an efficient manner? Evaluate it for the following list: 30, 10, 49, 34, 69, 12, 96, 53, 2, 43, 80