

GUJARAT TECHNOLOGICAL UNIVERSITY**DIPLOMA ENGG.- IIIrd SEMESTER-EXAMINATION – MAY/JUNE- 2012****Subject code: 330701****Date: 28/05/2012****Subject Name: Data structure Management****Time: 02:30 pm – 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q. 1 (a) (i) Give the syntax of declaring one dimensional array in C and explain with example. (3)

(ii) Explain row-major order of an array with example. (4)

(b) Declare a 5 x 5 array of integers in C and write a program segment to initialize all its diagonal elements to 1 and rest of the elements to 0. (7)

Q. 2 (a) Define stack. List the operations that can be performed on a stack and explain with example. (7)

(b) Using array data structure, write an algorithm to push data items onto the stack. (7)

OR

(b) Using array data structure, write an algorithm delete a data item from the circular queue. (7)

Q. 3 (a) (i) What is a linked list ? List the various operations that can be performed on a linked list. (4)

(ii) Differentiate between linked list and sequential list. (3)

(b) Write an algorithm to add a new node at the end of a singly linked list. Assume suitable data. (7)

OR

Q. 3 (a) Explain pointer data type. How a pointer variable is declared and initialized in C ? Explain giving example. (7)

(b) Write an algorithm to search a given node in a singly linked list. Assume suitable data. (7)

Q. 4 (a) Explain bubble sort method. Give the trace of following data using bubble sort method: (7)

88, 58, 38, 18, 28

(b) Explain binary search method. Write an algorithm for binary search method. (7)

OR

Q. 4 (a) Write a program in C/C++ for sorting array of integers using selection sort method. (7)

(b) Explain shell sort method with example. (7)

Q. 5 (a) List various tree traversal methods and explain. (7)

(b) Construct a binary tree for the following data: (7)

50, 55, 35, 15, 52, 65, 33, 47, 75, 72 Take 50 as root node.

Reconstruct the tree after addition of the nodes 27 and 56.

OR

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Ian Pickup



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