

**GUJARAT TECHNOLOGICAL UNIVERSITY****DIPLOMA ENGG.- III<sup>rd</sup> 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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## **Table of Contents Gtu Exam Paper Solution 3rd Sem Of Be**

1. Understanding the eBook Gtu Exam Paper Solution 3rd Sem Of Be
  - The Rise of Digital Reading Gtu Exam Paper Solution 3rd Sem Of Be
  - Advantages of eBooks Over Traditional Books
2. Identifying Gtu Exam Paper Solution 3rd Sem Of Be
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Gtu Exam Paper Solution 3rd Sem Of Be
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gtu Exam Paper Solution 3rd Sem Of Be
  - Personalized Recommendations
  - Gtu Exam Paper Solution 3rd Sem Of Be User Reviews and Ratings
  - Gtu Exam Paper Solution 3rd Sem Of Be and Bestseller Lists

5. Accessing Gtu Exam Paper Solution 3rd Sem Of Be Free and Paid eBooks
  - Gtu Exam Paper Solution 3rd Sem Of Be Public Domain eBooks
  - Gtu Exam Paper Solution 3rd Sem Of Be eBook Subscription Services
  - Gtu Exam Paper Solution 3rd Sem Of Be Budget-Friendly Options
6. Navigating Gtu Exam Paper Solution 3rd Sem Of Be eBook Formats
  - ePub, PDF, MOBI, and More
  - Gtu Exam Paper Solution 3rd Sem Of Be Compatibility with Devices
  - Gtu Exam Paper Solution 3rd Sem Of Be Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gtu Exam Paper Solution 3rd Sem Of Be
  - Highlighting and Note-Taking Gtu Exam Paper Solution 3rd Sem Of Be
  - Interactive Elements Gtu Exam Paper Solution 3rd Sem Of Be
8. Staying Engaged with Gtu Exam Paper Solution 3rd Sem Of Be
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gtu Exam Paper Solution 3rd Sem Of Be
9. Balancing eBooks and Physical Books Gtu Exam Paper Solution 3rd Sem Of Be
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gtu Exam Paper Solution 3rd Sem Of Be
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Gtu Exam Paper Solution 3rd Sem Of Be
  - Setting Reading Goals Gtu Exam Paper Solution 3rd Sem Of Be
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gtu Exam Paper Solution 3rd Sem Of Be
  - Fact-Checking eBook Content of Gtu Exam Paper Solution 3rd Sem Of Be
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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