NAME	ROLLNO
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2009 ACHARYA NAGARJUNA UNIVERSITY B.TECH II SEMESTER DEGREE EXAMINATIONS C AND DATA STRUCTURES

TIME: 3 HOUR MARK: 90

ANSWER ALL QUESTIONS

PART A [2*10=20]

- a. What is an array/
- b. Distinguish between user defined function and library functions.
- c. What is meant by storage class?
- d. Define array of pointers.
- e. Distinguish between structures adn unions.
- f. Write operations of opening and closing a file.
- g. What is a binary search?
- h. What is a data structur?
- i. What is a sparse matrix?
- j. Define priority queue.

PART-B [7*10=70]

- 1. a. What are different string handling functions. Explain in detail.
- b. What are different types of arrays? Explain with example.
- 2. a. What is a function? Explain how parameters are passed in a function?
- b. Write a C program for Towers-of-Hanoi?
- 3. a. What is a Union? Write a C program using union?
- b. What is a C program for Binary search?
- 4. a. What is a structur? Write a C program using structure.
- b. Explain various I/O operations of files.
- 5. a. Write a C program to implement stack operation?
- b. What is circular double linked list? Write the operation on Circular double Linked List?
- 6. a. Write a C program to implement Queue operations?
- b. Explain CPU scheduling in multiprogramming environment?
- 7. a. What is a Binary tree? Explain various operations on binary tree?
- b. Write a C program to implement Merge Sort?