

2009-ACHARYA NAGARJUNA UNIVERSITY
B.TECH II SEMESTER DEGREE EXAMINATION
C&DATA STRUCTURES

FEBRUARY-2009

TIME-3HOUR
MARKS-80

ANSWER ALL QUESTIONS

PART A [10*2=20 MARKS]

- 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 and unions.
- f. Write operations of opening and closing a file.
- g. What is a binary search?
- h. What is a data structure?
- i. What is a sparse matrix?
- j. Define priority queue.

PART B [4*15=60 MARKS]

1. a. What are different string handling functions. Explain in detail.
b. What are different types of arrays? Explain with example.
(or)
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?
(or)
4. a. What is a structure? 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?

(or)

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?

(or)

8. a. Explain various types of Binary trees.

b. Write a C program for Postfix Expression Evaluation?

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