

Bharati Vidyapeeth's College of Engineering for Women, Pune

Electronics and Telecommunication Department

Unit Test:1 (Marks:30)

Subject: Data Structure& Files

Qu1 Compare array and structure and union and structures in 'C'?

Qu2 create a database for student using structure that will describe following information

i)Name ii)Roll No iii) Age

only for two students write functions for input, display and search

Qu 3 What do you mean by function call by value and call by reference? Write the program to explain the difference between that.

Qu 4 Explain the term file and name different operations that can be performed by on file?
Compare sequential and random file?

Qu5 Write a program to perform multiplication of two polynomials?

Qu 6 Write recursive and non recursive functions for binary search?

Qu 7 Sort the following list of nos. using quick sort

50,10,-10,35,15,25,60,45,100,2

Note solve any 6 questions. Each question carry 5 marks.

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Unit Test:2 (Marks:30)

Subject: Data Structure& Files

Qu1 Represent the following polynomial using GLL

$$3x^4y^3+5x^3y^3+7xy^3+3x^4y^6+5x^3y^6+7xy^6+6xy$$

Qu2 Compare singly linked list, Doubly linked list and circular linked list?

Qu3 Evaluate the following postfix expression using stack

$$623+ -382/+*2\$3+$$

Where \$=exponentiation

Convert the following infix expression to postfix expression using stack

$$A/B\$C+D*E-A*C$$

Where \$=exponentiation

Qu4 Write necessary 'C' function to implement stack using linked list?

Qu5 Explain the concept of priority queue with suitable example?

Qu6 Explain any one application of queue with pseudo code?

Note solve any 6 questions. Each question carry 5 marks.