davv bca question papers

May 2003

Bachelor of Computer Application (BCA) Examination

II Semester

'C' Programming

Time : 3 Hours]   [Max. Marks : 50

Note- *Attempt all five questions. Symbols have their usual meanings.*

1. (a) Describe various data types used in `C' with an example of each.
    (b) What is Bitwise operator? Explain all types of bitwise operator with example.

OR

    (a) What is enumerated data type? How it is declared show with an example?
    (b) What do you mean by precedence of operators? Explain by giving an example.

2. Write a `C' program to generate the following series:
    1, 2, 4, 7, 11, 16, 22 .... upto n.

OR

Write a `C' program to calculate sum of the series:

$$\Rightarrow 1 + X + \frac{X^2}{2!} + \frac{X^3}{3!} + \text{.......} \frac{X^n}{n!} .$$

3. Write a `C' program to find out second maximum of a list having n integer elements.

OR

    (a) Differentiate between call by value and call by reference.
    (b) Write a Recursive function to calculate m^n (m to the power n)

4. (a) Differentiate between Structure and union with example.
    (b) What is Self-Referential structure? Explain with example.

OR

Consider Array S of structure student with following fields:
int, Rollno, char name (25), int marks float percentage

    (a) Write a function to enter n records in Array S.
    (b) Write a function to display all records for which marks is greater than or equal to 60.

5. Write short notes on: (any two)
    (a) Error Handling.
    (b) fopen and fclose.
    (c) Formatted Input and Output.

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