davv bca question papers

September 2011
Bachelor of Computer Application (BCA) Examination
II Semester

Problem Solving & Programming with C Language-II

Time : 3 Hours]   [Max. Marks : 50

Note - *Attempt all five questions. Symbols have their usual meanings. All questions carry equal marks.*

1. (a) Explain the scope rule of functions with suitable examples.
    (b) Write user defined function (without using standard library functions) for the following:
        (i) XStrlen   (ii) XStrcopy.

        OR

    (a) Differentiate macros and functions with examples.
    (b) Write a recursive function to calculate a Fibbonaci Series.

2. (a) Explain various memory allocation functions with examples.
    (b) Write a program to arrange the names of students in an ascending order.

        OR

    (a) What is the purpose of using unions ? How to initialize a union member ?
    (b) Explain with example :
        (i) Array of Pointer   (ii) Array of Pointer to String.

3. (a) Illustrate the difference between formatted and unformatted input-output functions with examples.
    (b) Write a program in C to store ten roll numbers and ten names in a text file.

        OR

    (a) Explain the use of following functions .
        (i) fopen   (ii) fread   (iii) fseek.
    (b) Write a program in C to read number of characters in a text file.

4. (a) Explain various video display modes.
    (b) How to set colors in various graphics mode ?

        OR

    (a) Explain various components of VDU.
    (b) How to write VDU memory in text mode ?

5. (a) Explain the steps for designing animations.
    (b) Write a program to fill a circle into a solid color.

        OR

    (a) Explain various system metrics with examples.
    (b) Explain various graphics programming modes with examples.

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