September 2012
Bachelor of Computer Application (BCA) Examination
II Semester

Problem Solving & Programming Through C - II

Time : 3 Hours]   [Max. Marks : 50

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

1. (a) What do you mean by actual and formal arguments ? Write a program to show concepts of call by value and call by reference.
    (b) Differentiate between function and macro giving example.

OR

    (a) Write a program to enter 5 digit number and add each individual digit and print result.
    (b) Explain types of recursion with example.

2. (a) Write a program to read 10 numbers from user in 1 dimension array 'A' and 'B'. Add numbers of both array A and B and store in 1 dimension array C. Display all 1 dimension arrays.
    (b) What is pointer to function and function returning pointer? Explain each concept *by* example.

OR

    (a) What are Dynamic memory allocation functions in C ? Explain each one in brief
    (b) What is Structure ? How is it different from Union ?

3. (a) Differentiate text and binary file.
    (b) Write a program to read a file and print the following information :
        (i) How many number of character ?
        (ii) How many number of words ?
        (iii) How many number of lines ?

OR

    (a) What is Command Line Argument Concept ? What is the need of it ?
    (b) Describe various file opening modes.

4. (a) What do you mean by Video display modes and resolution ?
    (b) Explain different types of video adapter in graphics mode.

OR

    (a) What do you mean by Video Memory ?
    (b) Describe various types of monitors with their advantages and disadvantages.

5. (a) Write a program to create rectangle with yellow colour.
    (b) Explain the process to create lines and bars in graphics programming.

OR

    (a) What do you mean by filling regular and non-regular shapes of graphics ?
    (b) Write the method to output, text in different colours and graphical formats.

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