davv bca question papers

## June - July 2007

Bachelor of Computer Application (BCA) Examination
**II Semester**

### 'C' Programming

Time : 3 Hours ]                                    [ Max. Marks : 50

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

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1.  (a)  Write a 'C' program to interchange the contents of two variables without using third variable.
    (b)  Describe different types of operators of 'C' language.
    **OR**
    (a)  Write a 'C' program to convert the temperature from farenheit to celcius.
    (b)  Explain different data types used in 'C' language with size, range and example of each.

2.  (a)  Write a 'C' program to calculate factorial of a given number using recursion,
    (b)  Explain different looping control statements with example.
    **OR**
    (a)  Write a 'C' program to find out whether the given number is prime or not.
    (b)  Explain different decision control statements with example.

3.  (a)  Write a 'C' program for addition of two matrix of 3 x 3.
    (b)  Differentiate Pointer and Array with example. '
    **OR**
    (a)  Write a 'C' program to sort an array of 30 integers in ascending order.
    (b)  Explain Pointer to function with an example.

4.  (a)  Create a structure to specify data of customers in a bank. The data to be stored is : Account Number, Name, Balance in Account. Assume maximum of 200 customers in the bank. Write a function to print the account number and name of each customer with balance below Rs. 500.
    (b)  Explain Self-Referential Structures with an example.
    **OR**
    (a)  Explain pointer to structure with an example.
    (b)  Describe union of structures with an example.

5.  (a)  Write a 'C' program to read a file and display its contents along with line number before each line.
    (b)  Explain sprintf() and sscanf() functions with an example.
    **OR**
    (a)  Write a 'C' program to read the records from the file student and display them in sorted order by name.
    (b)  Explain different file opening modes of 'C' language.

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