davv bca question papers

July 2009

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) Explain different data types in C.

   (b) What is a Variable? How are the variables declared in C?

OR

   (a) Explain different types of operations in C.

   (b) What is a Constant? Explain constants in C.

2. (a) What are the commonly used input/output functions in C? How are they accessed ?

   (b) Write a C program to display the ASCII value of a given character.

OR

   (a) Write a C program to calculate the cut off mark of a student using the formula-

$$CM = \frac{M}{2} + \frac{P}{2} + \frac{C}{2} + E$$

CM = Cut off marks, M = Marks obtained in Maths out of 200, P = Marks in Physics out of 200, C = Marks in Chemistry out of 200, E =Marks in Entrance Exam out of 100.

   (b) Explain the significance of following type specifies.

   (i) % c   (ii) %0

   (iii) %X   (iv) %d

3. (a) Write a C program that receives marks obtained by a student in 3 subject and returns the average and percentage of these marks.

   (b) What is meant by Function Pointer? Give an example.

OR

   (a) Describe how pointers are used for handling character strings.

   (b) Distinguish between Call by Value and Call by Reference.

4. (a)   Write a menu drive C program to (i) Insert a line in a file (ii) Delete a line of a file.

(b)   Distinguish between append mode and write mode.

<div align="center">OR</div>

(a)   Write any four file input/output function.

(b)   What is the difference between Sequential File and Random File?

(c)   What is a Structure? How does a structure differ from an array?

5. (a)   Write a C program to find the sum of the digits of any given positive integer.

(b)   Define a one dimensional array having 50 elements. Write a C program to calculate sum of the values stored in array.

<div align="center">OR</div>

(a)   Write a C program by using structure to read the employee name, number, experience and salary. Program should print the number and names of all the employee who have 5 year or more experience but salary less than Rs. 10,000.

(b)   Write a program to reverse a given integer.

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