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BCA/M–23

COMPUTER FUNDAMENTAL & PROGRAMMING IN C++

Paper–BCA–101

Time : 3 Hours]   [Maximum Marks : 80

Note :   Attempt **five** questions in all, selecting at least **one** question from each unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1.   (a)   Difference between Scalar Variable and Pointer.

 (b)   Write steps to write and execute a C program.

 (c)   Explain the use of Continue Statement with Example.

 (d)   What is the use of strcmp ()?   (4×4=16)

UNIT–I

2.   Explain all Input Output devices with example.   (16)

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3. (a) Explain the concept of problem Solving. (8)

(b) Explain Top-Down and Bottom-up Programming methodologies. (8)

UNIT–II

4. What do you mean operator? Explain all operators with example and its hierarchy & associativity. (16)

5. (a) What do you mean by variable? Explain the rules for naming the variable by giving examples. (8)

(b) What is conditional Operator? Explain it with example. Also Explain the casting of data. (8)

UNIT–III

6. Differentiate Between the following :

(a) For Loop & While Loop.

(b) Call by Value & Call By Reference.

(c) Formal Arguments & Actual Arguments.

(d) Local Variable & Global Variable. (16)

7. Explain the following :

(a) Concept of Recursion with example.

(b) Scope of external and auto variables in a function.

(16)

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UNIT–IV

8.   What are Pointers? What is the need of Pointers? What are
     their benefits? Explain the usage of pointers with linear array
     and strings.   (16)

9.   What is Structure? What are its features? Explain the concept
     of Declaration and Initialization of Structure with examples.
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