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Exam. Code : 107201 Subject Code : 9241

BCA Ist Semester (Old Sylb. 2016)

INTRODUCTION TO PROGRAMMING C-I

Paper—I

Time Allowed—3 Hours]

[Maximum Marks—75

Note: — Attempt any FIVE questions. All questions carry equal marks.

- Define and distinguish between algorithm and flowchart.
 Write an algorithm for finding the smallest and the largest number from a list of numbers.
- What are the different phases of problem solving? Explain.
- 3. Write short notes on the following:
 - (a) Identifier
 - (b) Keyword
 - (c) Constant
 - (d) Variable
 - (e) Symbolic constant.

5×3=15

- 4. What are the different methods of performing input and output in C? Explain giving examples.
- 5. Define and distinguish between the following:
 - (a) For and while loops
 - (b) Break and continue statements
 - (c) If and switch statements.

3×5=15

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(Contd.)

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- 6. Write a program to print factorials of first n natural numbers in a sequence using recursion.
- 7. Define and distinguish between the following:
 - (a) Function declaration and function definition
 - (b) Call by value and call by address
 - (c) Formal parameters and actual parameters.

 $3\times 5=15$.

8. Write a program to add two matrices and store the result in third matrix.

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