

Roll No. ....

Exam Code : J-19

Subject Code—0102

**PGDCA/M.Sc.(CS)/MCA EXAMINATION**

(Batch 2009 Onwards)

(First Semester)

COMPUTER PROGRAMMING AND  
PROBLEM SOLVING

MS-02

(MCA-3 Years)

*Time : 3 Hours*

*Maximum Marks : 70*

**Section A**

**Note :** Attempt any *Seven* questions.      **7×5=35**

1. What is an Expression ? How is an expression differs from variables ?
2. What do you mean by preprocessor directives ?

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**P.T.O.**

3. Explain break and continue statements with examples.
4. Explain flowchart. What are the rules for drawing a Flowchart ?
5. What is a function ? How are keyboards different from them ?
6. What is the difference between Union and Structure ?
7. Explain bitwise operator with suitable example.
8. Give the syntax of nested for loop and explain how it works with an example.
9. Explain with example, how a string is declared and initialized.
10. Explain array of pointers.

### Section B

**Note :** Attempt all the questions.

11. What do you mean by preprocessor directives ? Why do we include header files in 'C' language ?

*Or*

What are functions ? How to pass parameters in functions ? Explain using example. **12**

12. What is an Array ? Explain different types of array in detail.

*Or*

What is the purpose of the type of feature ? How is the feature used in structure declaration ? **12**

13. What do you mean by looping ? Give the syntax of looping statements in C. Also write a program to find the sum of  $n$  odd numbers.

*Or*

Discuss giving examples for various storage classes in C. **11**