

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 07

**B.Sc.(CS) (2013 & Onwards) (Sem.-1)**  
**PROBLEM SOLVING AND PROGRAMMING IN 'C'**  
Subject Code : BCS-106  
M.Code : 70883

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.

**SECTION-A****1) Answer briefly :**

- a) Write the data types available in C.
- b) What is the use of Goto statement?
- c) Discuss the need of flowcharts.
- d) Differentiate between global and local variables.
- e) What are pointers in C?
- f) What are storage classes?
- g) What are the different ways to declare a structure variable?
- h) Discuss macros in C.
- i) How can we declare structure?
- j) What are limitations of unions?

### SECTION-B

- 2) What is file processing in C? Write syntax for opening files using file operations.
- 3) Explain in detail the steps involved in program development.
- 4) Write a C program to find factorial of a given number using recursion.
- 5) Explain the difference between call by reference and call by value with suitable examples.
- 6) Differentiate between Structure and Union. Which one is the best? Give comment.
- 7) What is Array? Write a program to sort the element of given array.

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**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**