

Roll No.

Total No. of Pages : 02

Total No. of Questions: 07

**B.Sc. (IT) (2015 Batch)/BCA (2011 & Onwards) (Sem.–1)**

**PROGRAMMING IN 'C'**

**Subject Code: BSIT/BSBC-102**

**Paper ID: [B1109]**

**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. Write briefly :**

- (a) What is algorithm? What are its various characteristics?
- (b) What is operator precedence and associativity? Explain.
- (c) Explain how while statement is different from do while statement.
- (d) What are various jumping statements? Explain.
- (e) What is array? How it is declared?
- (f) What is auto storage class? Explain.
- (g) What is function? What are its advantages?
- (h) Explain how structure is different from union.
- (i) What is purpose of strcmp( ) and strcpy( )?
- (j) What is recursion? Illustrate with example.

## SECTION-B

- 2 What is flowchart? Draw and explain flowchart for finding factorial of a given number.
- 3 Explain the following :
  - (a) I/O statements in C language
  - (b) Keywords in C languages
- 4 What are various decision making statements? Explain their relative merits and demerits.
- 5 What is meant by call by value? Explain how it is different from call by reference. Write C language program to support your answer,
- 6 What is pointer? What are its uses? Explain the relationship between Pointers and arrays by taking suitable example.
- 7 What are different types of file operations in C language? Discuss with suitable examples.