

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.