

**Total No. of Questions : 07**

**Total No. of Pages : 02**

**B.Sc. (IT) (2015 & Onward)/BCA (2013 & Onward) (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

**Q1 Answer briefly :**

- Define data type.
- List any four keywords.
- What is use of jumping statement?
- What are various input/output statements?
- Define local and global variable.
- What is use of nested structure?
- Write a C language program to swap two given numbers.
- How pointers are initialized?
- Write a C language program to print first 10 even numbers.
- What is function prototyping?

## SECTION-B

- Q2 Define Program. Write and explain various steps involved in development of the program.
- Q3 What is operator and expression? Explain various types of operators available in C language.
- Q4 What is Call by value? How it is different from call by reference? Explain with suitable example. <http://www.punjabpapers.com>
- Q5 Write and explain a C language program to transpose a matrix.
- Q6 Write notes on the following :
- (a) Pointers
  - (b) Processing a data file
- Q7 Differentiate the following :
- (a) Structure and union
  - (b) While and do-while statement.