

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (Sem.-1)
PROGRAMMING IN 'C'
Subject Code : BS-105
Paper ID : [B0403]

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 happens when an integer is added or subtracted from a pointer?
 - b Differentiate between formal and actual parameters.
 - c What is the difference between a structure tag and structure template?
 - d What are different input functions for reading a character value?
 - e What do you mean by typecasting? What function does it perform?
 - f What is the purpose of *size of* function?
 - g How are the command line arguments given to the program?
 - h Under what condition, a pointer variable can point to another pointer variable?
 - i Describe life time and visibility of an external variable.
 - j Why do we need to write a function prototype?
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SECTION-B

- 2 What are the various data types available in C? Explain each one of them with an example.
- 3 What is a pointer variable? How can various arithmetic operations be performed on pointers?
- 4 Write a program to find the sum of rows, columns and diagonals of a matrix using functions.
- 5 Write a program to merge two sorted files to get a third file.
- 6 What are the various ways to access the members of a structure in C?
- 7 Write a program to reverse the digits of a number. Also draw the flowchart for the same.

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