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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (Sem.-1st)**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 students has to attempt any **FOUR** questions.

SECTION-A

1. Write briefly :

- (a) What are keywords and data type qualifiers?
- (b) What are the areas of applications of for statement?
- (c) Give memory representation of a two dimensional array.
- (d) Differentiate between a structure and a union.
- (e) Can a pointer variable appear on the left hand side of an assignment operator?
- (f) Describe the scope and visibility of a variable.
- (g) How will you convert value of a character into ASCII?
- (h) What are the restrictions on processing of enumerated data types?
- (i) What are different modes in which a file may be opened?
- (j) Write the difference between signed and unsigned data types.

SECTION-B

2. (a) Explain the working of scanf() and printf() functions.
(b) Draw a flowchart to find the largest of five numbers.
3. (a) What are preprocessor directives? What is their role in a C program?
(b) How is pointer to an array created and used in C program? Explain with example.
4. (a) Explain the various storage classes available in C.
(b) Write a program to find the factorial of a number using recursion.
5. List various types of operators available in C language with their use. Give the precedence of operators according to hierarchy.
6. Write a program that reads two matrices and prints the product of these matrices.
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7. Write a C program that accepts name of a file to be created and list of names of students of a class from the user and writes into file. The exact number of students is not known.