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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 :**

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- a) What do you mean by Identifiers and Keywords?
 - b) Write a program to shift the entered number by three bits left and display the result.
 - c) What are ternary operators? Give example.
 - d) Differentiate between break and continue statements.
 - e) What do you choose between while and for loop?
 - f) Can we store values and addresses in the same array? Explain.
 - g) What are pointers? Write at least two advantages of using pointers.
 - h) Can we pass functions to other functions? If yes how?
 - i) Write at least three advantages of functions.
 - j) What are the different modes in which a file can be opened?

SECTION-B

2. (a) Explain various C operators. (5)
(b) Write a program to find the roots of a quadratic equation using switch statement. (5)
3. (a) Explain the different type of Data types available in C.
(b) Write a program to reverse a given number and check whether a given number is same as that of reversed. (5+5=10)
4. (a) Differentiate between call by value and call by reference concept of functions with an example. (6)
(b) Write a program to find the factorial of a given number using concept of functions. (4)
5. (a) Give the limitations of arrays.
(b) How a string is stored in C?
(c) Write a C program for matrix multiplication. (2+2+6=10)
6. (a) Write a program to add two numbers through variables and their pointers.
(b) Write a note on arithmetic operations with pointers.
(c) Write note on dynamic memory allocation. (4+3+3=10)
7. (a) Write a program to copy the contents of one text file into another. (5)
(b) Write detailed note on I/O operations on file. (5)