

Exam. Code : 303502

Subject Code : 5008

PGDCA Semester-II

PAPER-II : PROGRAMMING IN C

Time Allowed—3 Hours]

[Maximum Marks—50

Note:— Attempt any five questions in all. All questions carry equal marks.

1. What are the various data types available in C ? Discuss the range and valid operations for each.
2. What are the various control structures available in C ? Discuss and compare looping constructs giving suitable examples.
3. Define Functions. What are the advantages of using functions ? What are the various methods of parameter passing to function ? Explain each with an example.
4. Define Arrays. How is an array defined in a C program ? Also write a program to find the sum of the elements of an array using functions.
5. What are the various library functions available in C for string processing ? Write a program in C for comparing two strings, copying one string to another and concatenating two strings without using in-built functions.

6. What are Pointers ? What are the advantages and problems of using pointers ? How a pointer is declared in C ?
7. A company plans to store the following information about its employees :
 - (a) Name
 - (b) Designation
 - (c) Address
 - (d) Salary.

Declare a structure to store this information and write a program to read the data from keyboard for 10 employees.

8. What are files ? How is a file declared and defined in C ? Discuss the functions to open, close, read and write data files in C.