

Exam. Code : 303502

Subject Code : 6634

PGDCA Semester-II

PROGRAMMING IN C

Paper-II

Time Allowed—3 Hours]

[Maximum Marks—50

Note : Attempt any **five** questions. All questions carry equal marks.

1. What are the various data types available in C ? Briefly discuss each with an example.
2. What are the various looping constructs used in C ? Discuss and compare each with an appropriate example.
3. Discuss in detail the various storage classes available in C. Give examples of each.
4. What is recursion ? How recursion is implemented in a C program ? Write a recursive program in C to find the factorial of a given number.
5. What do you mean by an array ? List the advantages of arrays. How an array can be initialized in C ? Also discuss how an array is passed to a function.
6. What is a Structure ? What are the operations that can be performed on a structure ? How is a structure declared in C ? What is a nested structure ?

7. What are Pointers ? What are the advantages and problems of using pointers ? How is a pointer declared in C ? Differentiate between a pointer to an array and an array of pointers giving example.
8. Write a program in C to read a text file and count the occurrences of any two vowels in succession.