

Exam. Code : 303502

Subject Code : 7224

**P.G. Diploma in Computer Application (PGDCA)**

**2nd Semester**

**PROGRAMMING IN C**

**Paper-II**

Time Allowed—3 Hours] [Maximum Marks—50

**Note :—** Attempt any **five** questions. Each question carries equal marks.

1. Explain various characteristics of C programming language.
2. What is an operator ? Explain the arithmetic, relational, logical, and assignment operators in C programming language.
3. Explain various types of looping statements available in C programming language with help of examples.
4. (a) What is an array ? Explain the declaration and initialization of one and two dimensional arrays with example.  
  
(b) Write a program to find the average of 10 numbers.

5. Explain the concept of passing arrays argument to function with the help of a suitable example.
6. (a) What is a pointer ? What is the use of pointers ? Explain how the pointer variable is declared and initialized.
- (b) Write a C program to swap two numbers using pointers.
7. What do you mean by "array of structure"? Write a C program to maintain a record of "n" student details using an array of structures with four fields (Roll number, Name, Marks and Grade). Each field is of an appropriate data type.
8. Explain file handling in C programming language in detail.