

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

1	2	1	9
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PGDCA 1st Semester

(2122)

COMPUTER PROGRAMMING USING C

Paper : PGD-1102

Time Allowed : Three Hours]

[Maximum Marks : 60

Note :—Attempt **FIVE** questions in all, selecting **ONE** question from each unit and Question No. 9 is compulsory.

UNIT—I

1. (a) What are storage classes ? Discuss with the help of examples. 6
- (b) Discuss about the data types used in C. What do you understand by type casting ? 6
2. (a) What is a flowchart ? What are the components of a flowchart ? Draw a flowchart to find factorial of a number. 6
- (b) What do you understand by conditional compilation ? Explain with the help of example code. 6

UNIT—II

3. (a) How to pass parameters to functions using call by reference ? Give example code. 6
(b) Write a program to find maximum and minimum elements in an array. 6
4. (a) How to define, declare and call a user defined function ? Give example code. 6
(b) How to declare and use pointers and array of pointers in a program ? Give example code. 6

UNIT—III

5. (a) Write a program to find length of a string without using built-in function. 6
(b) How to use array of structures and array in structures in a program ? Give example code. 6
6. (a) Give differences between array and structure. How to use nesting in structures ? Give example code. 6
(b) How is union different from structure ? How do define and declare a union in a program ? Give example code. 6

UNIT—IV

7. Discuss console I/O functions used in C with the help of example code. 12
8. (a) Write a program to store a string into a file. Now read the string from file and print on screen. 6
(b) What are different modes in which a file can be opened in a program ? 6

UNIT—V

9. (a) Give difference between constant and variable. 2
- (b) How is an algorithm different from pseudocode ? 2
- (c) What do you understand by recursion ? Give example. 2
- (d) What is the role of strcat() and strcmp() functions ? 2
- (e) How to store multiple strings in a program ? 2
- (f) How to open and close a data file in a program ? 2