

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

8	6	8	4
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Exam. Code :

1	2	1	9
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PGDCA 1st Semester

1128

COMPUTER PROGRAMMING USING C

Paper—PGD-1102

Time Allowed : Three Hours]

[Maximum Marks : 60

Note :— Candidate is required to attempt *five* questions in all including Question No. 1 (which is Compulsory) and attempt remaining *four* questions by selecting *one* question from each Unit.

(Compulsory Question)

- I. (a) List various file operating modes. 2
(b) What do you understand by structural programming ? 2
(c) Draw a flowchart to find the smallest of three numbers. 2
(d) Define Union. 2
(e) Why we use functions in C ? Justify your answer. 2
(f) What is type casting in C Programming ? 2

UNIT—I

- II. Explain the rôle of conditional statements in C language with suitable examples. Write a program to compute factorial of a given number. 12
- III. Explain the purpose of major header files and conditional compilation directives in C. Write a C Program to capitalize first letter of every word in a file. 12

UNIT—II

- IV. What do you understand by modular programming ? How arguments are passed to a function ? Explain with examples the concept of call by value and call by reference. 12
- V. When should we use pointers in a C program ? What is NULL pointer ? Write a C program to find the length of a given string using pointers. Write a C program to sort an array. 12

UNIT—III

- VI. (a) Write a C program to check whether a given string is palindrome or not. 6
- (b) What are objects and structures ? How to initialize a structure variable ? Explain with example. 6
- VII. (a) Explain the following built-in functions :—
strlen(), strcat(), strcmp(), getchar() and scanf() 6
- (b) Write a C program to check whether a given number is Armstrong or not. 6

UNIT—IV

- VIII. (a) Discuss the various co isole I/O functions in C. 6
- (b) What is a file ? Discuss the various file handling operations in C. 6
- IX. Write a C program to delete/update a specific line from a file. 12