

Ratan Singh

Roll No.

PGDCA-104

P. G. D. C. A. EXAMINATION, 2018

Paper Fourth

COMPUTER PROGRAMMING

(Pascal and C++)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A

(Short Answer Type Questions)

Note : All questions are compulsory. Each question carries 4 marks.

1. (A) What is mathematical operator precedence rule ?
- (B) Define file pointer in C language.
- (C) Differentiate sequential and procedural methods of Programming.
- (D) Differentiate turbo Pascal and turbo C++ compiler by their characteristic.

- (E) Define similarity among pointer and array in C++ language.
- (F) Define standard library I/O function of C++ and PASCAL Language.
- (G) Differentiate pass by value and pass by reference attribute of a function.
- (H) Design definition of structure in PASCAL/C++ language for a person in a University.
- (I) Differentiate relational and conditional operators in C++ language.
- (J) What is the procedure of finding position of character in defined string by standard library function in PASCAL/C++ language ?

Section—B

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 15 marks.

2. Define and design algorithm and flowchart for finding GCD of list of numbers.
3. Define briefly condition structure, while, repeat and for in Pascal language.
4. Design a program for reading a strings one file (given) and moving those strings to another file (given) in Pascal language.
5. Define Array in Pascal Language. What is their limitation ? How multidimensional feature supported in Language ?

[3]

Section—C

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 15 marks.

6. Write on the following in C++ language :
 - (a) Data type
 - (b) Variables and constant
 - (c) Arithmetic operators
 - (d) Bitwise operators
7. Define Pointers. Discuss the method to access elements of fixed size array through pointer.
8. Differentiate between the following :
 - (a) Nested conditional statement and switch
 - (b) While and Do-while
 - (c) Structure and Union
9. Design a program in C++ language to find the factorial of a number using functional approach only.