

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

DPG-2291

P.G. Diploma in Computer Application Examination, 2022

PROGRAMMING IN C++

Paper - PGDCA-102

Time : 3 Hours]

[Maximum Marks : 50

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. (i) What is OOP ?
- (ii) List various Tokens of C++.

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- (iii) Why goto statement is used ?
- (iv) Define an array.
- (v) How functions are useful ?
- (vi) What is the difference between a class and an object.
- (vii) What is abstract class ?
- (viii) Define Inheritance.
- (ix) What happens if we add 'Virtual' keyword before a function definition.
- (x) Define Polymorphism.

Section-B

2. Give a list of various data types in C++.

Or

What do you understand by scope of a variable ? Explain with an example.

3. Differentiate Break and Continue using suitable example.

Or

How we can declare and use pointers ? Explain with an example.

4. How strings are used in C++ ? Give any five string functions.

Or

Write a program to add two numbers using a class and an object of it.

5. Explain overloading with example.

Or

What is the difference between a constructor and destructor. Write a program for showing functionality of constructors and destructors.

6. Differentiate Run-time and Compile-time polymorphism.

Or

Give any *two* features of C++ that were not in old version of C++.

Section-C

7. Give a list of various types of operators in C++. Explain operator precedence and associativity.
8. How pointers can be used ? Write a program to swap two numbers using pointers.
9. (a) What is an array ? Write characteristic of an array.
(b) Write a program to read and write elements of a one-dimensional array.
10. (a) What is Inheritance ? Explain various types of inheritance.
(b) Write a program for single inheritance.
11. Explain friend function. Give example.