

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

DDPG-559

Post-Graduate Diploma in Computer Application Examination, 2023

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 Abstraction ?
- (ii) What is Encapsulation ?
- (iii) What is Function ?
- (iv) What is the use of Break in C++ ?

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- (v) What is Class ?
- (vi) What is Object ?
- (vii) What is Constructors ?
- (viii) What is Destructor ?
- (ix) What is Operator Overloading ?
- (x) Write any *two* additional features of C++17.

Section-B

2. Differentiate between inheritance and polymorphism.

Or

What is Object Oriented Programming ? How is it different from the procedural oriented programming ?

3. What do you mean by Overloading of a function ? When do we use this function ?

Or

What is Recursive function ? Explain with an example.

4. What is Multidimensional Array ? How do you represent one dimensional array in memory ?

Or

When do we declare a member of a class static ? How is a member function of a class defined ?

5. Is it mandatory to use constructor in a class ? How do we invoke a constructor function ?

Or

When will you make a function inline ? Why ?

6. Explain the additional feature of C++11 and C++14.

Or

How are the overloaded operator function useful in OOPs ?

Section–C

7. Explain the benefit and applications of OOPs.
8. Explain the advantages and disadvantages of pointer implementation.
9. Explain the advantages of array and what is string processing ?
10. (a) What is Inheritance ? What is the need of inheritance ?
(b) What is the need and its usage of destructor ?
11. What is friend function ? Explain the merit and demerit of friend function.