Rol1	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 :  $2 \times 10 = 20$ )

Note: Answer all ten questions (Answer limit 50 words). Each question carries2 marks.

Section–B (Marks :  $3 \times 5 = 15$ )

Note: Answer all five questions. Each question has internal choice (Answer limit200 words). Each question carries 3 marks.

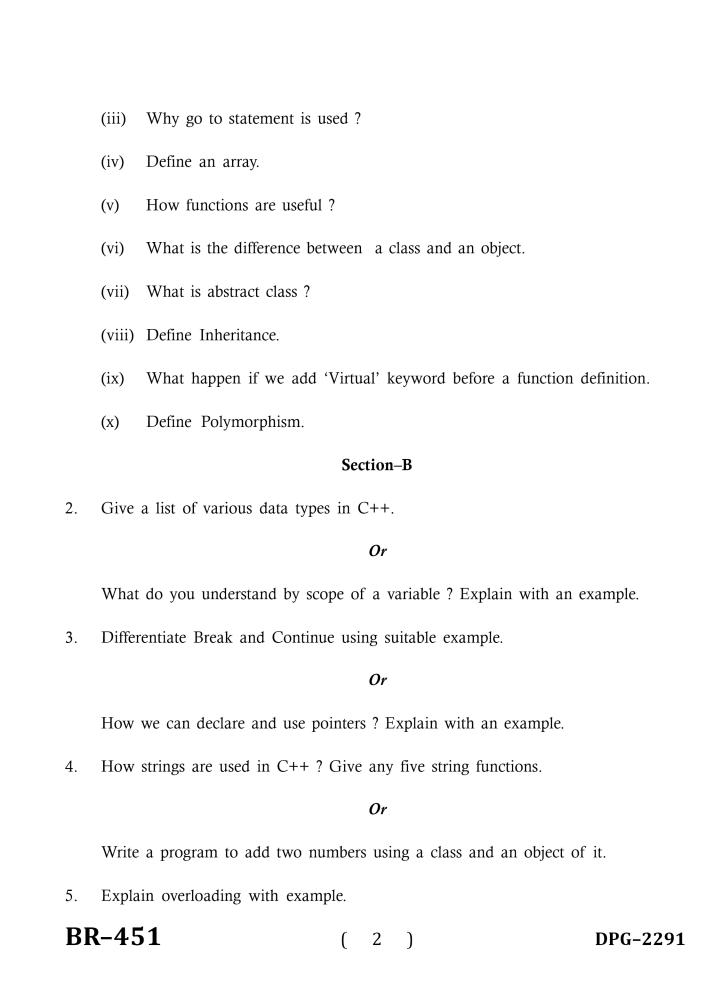
Section–C (Marks:  $5 \times 3 = 15$ )

**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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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-dimentional array.
- 10. (a) What is Inheritance? Explain various types of inheritance.
  - (b) Write a program for single inheritance.
- 11. Explain friend function. Give example.

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