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Total No. of Pages : 02

Total No. of Questions : 09

PGDCA (2014 & Onwards) (Sem.–1)

**PROGRAMMING IN C++**

Subject Code : PDCA-102

Paper ID : [B0142]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

**SECTION-A**

**Q1 Answer briefly :**

- a) What is the use of scope resolution operator?
- b) What is a pure virtual function?
- c) What are jump statements? Mention all the jump statements supported in C++.
- d) Differentiate between while loop and do-while loop.
- e) What are multidimensional arrays?
- f) Discuss the steps involved while opening a file.
- g) What are pointers?
- h) What is function overloading?
- i) Differentiate between structure and class.
- j) What are macros?

## **SECTION-B**

- Q2 Discuss the various data types in C++. Support your answer with an example.
- Q3 What is constructor? Mention different types of constructor with help of an example.
- Q4 Explain the file operation functions in C++ to manipulate the position of file pointers in a random access file.
- Q5 What is operator overloading? Explain with the help of an example.
- Q6 Explain different types of access specifiers supported in C++ with help of an example.

## **SECTION-C**

- Q7 What is runtime polymorphism? How virtual functions can be used to implement the runtime polymorphism? Explain with the help of an example.
- Q8 Explain the following :
- a) Error handling during I/O operations.
  - b) Control statements of C++.
- Q9 What do you mean by functions? How can you declare and use user defined function? Explain at least two techniques of passing argument to a function.