

PGDCA/MSCCS-03/MCA-103/CPCJ

December - Examination 2018

**MSCCS / PGDCA / CPCJ/MCA I Year
Examination****OOPs Programming with C++ and Java****Paper - PGDCA/MSCCS-03/MCA-103/CPCJ****Time : 3 Hours]****[Max. Marks :- 100**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A**10 × 2 = 20**

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) Write the Syntax to create a 2- D array in C++
- (ii) What do you mean by command line arguments?
- (iii) What is the purpose of static member variables in C++?
- (iv) What do you mean by array of pointers in C++?
- (v) For what purpose, delete operator is used in C++?
- (vi) What is the correct way to access a package in Java?

(vii) What output following statement would print in Java

```
a = "Hello"
```

```
System.out.println(a+ "Java");
```

(viii) What do you mean by focus listeners in event handling in Java?

(ix) What do you understand by card layout in GUI programming in Java?

(x) What do you mean by abstract class in Java?

Section - B

4 × 10 = 40

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Describe the predefined streams in C++.
- 3) Explain the concept of parameter passing in different ways in C++.
- 4) Describe the concept of polymorphism.
- 5) Can we overload each operator in C++? Explain using suitable example.
- 6) Describe the different types of priorities used for threads in Java
- 7) Write a program in Java to accept a year from the user and determine that is leapyear or not.
- 8) How can exception is thrown in Java?
- 9) Differentiate between template and macro in C++.

Section - C**2 × 20 = 40**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) (i) Write a program in Java to accept 10 natural numbers from the user and count the number of positive and negative number out of those 10 numbers.
- (ii) Explain the concept of method overriding with suitable example.
- 11) (i) Describe the structures in C++.
- (ii) Explain the types of inheritance used in C++.
- 12) (i) Write a program in C++ using templates to swap two numbers.
- (ii) Design a calculator for simple operations using GUI programming in Java.
- 13) (i) Explain the file opening modes and file pointers in C++ with suitable example.
- (ii) Explain the life cycle of a thread.
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