

**PGDCA-03/PGDCA-103/
MSCCS-03/MSCCS-103/
MCA-103/CPCJ**

June/December – Examination 2020

**PGDCA/MSCCS (Previous)/
CPCJ/MCA
(I Year) Examination**

**OOPs Programming with C++ and Java
Paper : PGDCA-03/PGDCA-103/MSCCS-
03/MSCCS-103/MCA-103/CPCJ**

Time : 2 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into two Sections A and B. Write answers as per the given instructions.

Section–A

8×2=16

(Very Short Answer Type 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) What do you mean by final method ?
- (ii) What do you mean by multilevel inheritance ?
- (iii) What do you understand by reserved words ?
- (iv) Define default constructors in a object oriented programming language.
- (v) What is the purpose of using garbage collection in Java ?
- (vi) What do you mean by a static method ?
- (vii) Define encapsulation in an OOP language.
- (viii) Write one major difference between Java application and Java applet.

Section–B

4×16=64

(Short Answer Type Questions)

Note :- Answer any *four* questions. Answer should not exceed **200** words. Each question carries 16 marks.

2. Describe the concept of checked and unchecked exceptions with suitable examples of each.
3. Explain the concept of communication of threads in Java.

4. Explain the concept of reading console input and writing console output in Java with suitable example.
5. Write a program to check if entered number is prime or not (by the user).
6. Explain the process of passing arguments by reference using an example program in C++.
7. Write a program to use delete operator for objects created with new operator in C++.
8. Write a program to illustrate the overloading of any binary operator using friend function.
9. Explain the concept of file handling in C++ with a suitable example.