11. (i) Explain various types of Operators in Java.

(ii) Write difference between :

(a) Constructor and Destructor

(b) Private keyword and Public keyboard

12. (i) What do you mean by inheritance ? Explain various types of inheritance.

(ii) Write difference between Call by reference and Call by value.

13. (i) What is Multithreading ? Explain Thread life cycle.

(ii) Write difference between Packages and Interfaces.

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PGDCA–103/MSCCS–103/
MSCCSC–103/MCA–103/CPCJ

December – Examination 2023

PGDCA/MSCCS (Previous)/
CPCJ/MCA (Ist Year) Examination

OOPS Programming with C++ and Java

Paper : PGDCA–03/MSCCS–03/
PGDCA–103/MSCCS–103/MSCCSC–103/
MCA–103/CPCJ

Time : 3 Hours] [*Maximum Marks : 80*

Note :– The question paper is divided into three Sections A, B and C. 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 up to **30** words. Each question carries 2 marks.

1. (i) What is constructor ?

(ii) What is inheritance ?

(iii) What are data types ?

(iv) What do you mean by Object ?

(v) What is finalize () ?

(vi) Define Abstract class.

(vii) What do you mean by OOPS Concept ?

(viii) What is inline function ?

Section–B   4×8=32

(Short Answer Type Questions)

Note :– Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

2. Define the class and object with example.

3. State relational operators used in C++.

4. What is control statement ?

5. Explain method overloading.

6. What is the use of Final Keyword ?

7. Explain global variable.

8. What is exception handling ?

9. What is the difference between double and float data types in Java ?

Section–C   2×16=32

(Long Answer Type Questions)

Note :– Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 16 marks.

10. (i) Explain the features of Object-Oriented Programming Language.

(ii) Explain User defined and derived data types.

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PGDCA–103 /MSCCS–103/   (3)   *TC–413* *Turn Over*
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