PGDCA/MSCCS-03/MCA-103/CPCJ

December - Examination 2017

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 $10 \times 2 = 20$
(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) How you declare object in Java?

   (ii) What is multithreading.

   (iii) Why Java is Robust Language?

   (iv) Give an example of class in C++.

   (v) What is inline function.

   (vi) What is type cast operator?

(vii) What is 'this' pointer?

(viii) Name any five Basic Data type in C++.

(ix) Name any three exception conditions occurs during programming.

(x) What is the use of 'new' operator?

Section - B $4 \times 10 = 40$
(Short Answer Questions)

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

2) Describe the use of Scope Resolution Operator with suitable example.

3) What is inheritance? Discuss in brief.

4) What is package in Java? Discuss its importance.

5) Describe the methods of creation of a thread in brief.

6) Write short note on 'Polymorphism'.

7) Discuss some loop structure in C++ with suitable examples.

8) Write a program to sort an array containing 10 elements in C++.

9) Describe two methods of opening a file in C++ with suitable example.

Section - C $2 \times 20 = 40$

(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) Explain the principles of overloading. Also discuss precaution with overloading with suitable example.

11) What is the need of template? Write a program to create square() function using template. Also explain the program.

12) Describe the key features of Java Programming Language in detail.

13) What is Applet? Explain Applet Life Cycle with example.

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