



ST. XAVIER'S COLLEGE
KOLKATA
(AUTONOMOUS)

1st SEMESTER EXAMINATION
NOVEMBER - DECEMBER 2014
M.Sc. Computer Science

CMSM4157

Wednesday & Thursday,
10th December & 11th December 2014

LAB 2; OBJECT ORIENTED
PROGRAMMING LAB

10:00 am onwards

3 hours

Full Marks : **80**

READ THESE INSTRUCTIONS FIRST:

- Of the questions attempted, the answers to only the first required number of questions (as stipulated in the question paper) will be evaluated. **So please do not attempt extra questions.**
- Use fountain pen or ball-point pen of **blue** or **black ink**.
- Answer in your own words as far as practicable.
- Do not write anything on the Question paper other than your Roll No.

At the end of the examination, fasten all your work securely together.

The marks are given in **brackets []** at the end of each question or part question.

The question paper consists of **3** pages.

SET: 3

PROGRAM CODE: 45; SAMPLE OUTPUT(S): 15; VIVA: 20

1. Write a class to find the third largest element from an array (at least 10 numbers having the range of 1 -100) using Exception Handling.
2. (a) Write a class to print the first 10 prime numbers.
(b) Write a class to sort an array of integers of size 15.
3. Create an interface called TwoDFigure containing a method called area() and a final variable called pi=3.14. Write a class by implementing the above interface called Rectangle. Now demonstrate the above by creating at least two objects of the Rectangle class.
4. Write a class to implement searching of an element from an array (at least 10 numbers having the range of 1 -100) using Exception Handling. The element to be searched is provided by the user.
5. Create three threads A, B, C using Runnable interface. Execute the threads from the main program using the start () method. Also implement the method of sleep () and stop ().

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CMSM4157**SET: 3**

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CMSM4157**SET: 3**

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