LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

SIXTH SEMESTER – **APRIL 2015**

CS 6611/CA 6611 - PROGRAMMING IN JAVA

Date : 15/04/2015   Dept. No.   Max. : 100 Marks
Time : 09:00-12:00

PART – A

Answer ALL the Questions   **(10 x 2 = 20)**

1. Explain JVM.

2. What is Type Casting?

3. Give the usage of ?: operator.

4. Explain type conversion in expressions.

5. Define Constructors. Give its types.

6. Define Arrays. State how a string array is declared.

7. Explain any two system packages.

8. Define Multithreading.

9. Give any two methods in character stream class.

10. What is a prepared statement?

PART – B

Answer ALL the Questions   **(5 x 8 = 40)**

11. (a) Give the Features of JAVA.

(OR)

(b) Discuss about the basic structure of a java program with a java code to swap two numbers without using a third variable.

12. (a) Write short notes on the java operators.

(OR)

(b) Explain switch statement with an example.

13. (a) Write short notes on: a) Super   b) Abstract class   c) Static methods   d) Final.

(OR)

(b) Define Class. Give the general form of a class. Give the difference between the two: Box mybox; and Box mybox = new Box();

14. (a) Define an Exception. How it is handled in Java. Explain with an example.

(OR)

(b) Describe the Complete Lifecycle of a Thread.

15. (a) Define Streams. Write a code to read bytes from a file.

(OR)

(b) Elaborate on establishing a connection and retrieving data from a table using JDBC.

PART – C

16. (a) Java is Object Oriented Language. Justify.

    (b) Explain Looping Constructs in Java with suitable examples.

17. (a) Define Interfaces. State its uses. Give the Similarities and Differences between Interfaces and Classes.

    (b) Define Packages. Explain with a suitable example of creating, accessing and using a package.

18. (a) Define Applet. Describe its Life Cycle. Explain the process of adding an applet to HTML file.

    (b) Write a Java code to implement stack operations using interface.

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