Roll No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]   **Total No. of Pages: 02**

Total No. of Questions: 09

PGDCA (2014 & Onwards) (Sem. – 2)
PROGRAMMING IN JAVA
M Code: 50510
Subject Code: PDCA-201
Paper ID: [B0150]

Time: 3 Hrs.   **Max. Marks: 60**

INSTRUCTIONS TO CANDIDATES:
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION A

1. Answer the following questions

   a) What is encapsulation?

   b) What is an object?

   c) What is the major difference between compile time and run time error?

   d) How vector is different from array?

   e) What is finally statement?

   f) What is package?

   g) Explain the advantage of final variable.

   h) What do you mean by hierarchical inheritance?

   i) How many catch blocks can we use with one try block?

   j) What is a local applet?

SECTION B

2. Why Java is considered a preferred programming language for the Internet? Explain.

3. What is multi-catch feature? Explain with the help of a program.

4. How does **String** class differ from the **StringBuffer** class? Explain.

5. Given a number, write a Java program using while loop to reverse the digits of the number. For example, the number 12345 should be written as 54321.

6. Describe the various forms of implementing interfaces. Give examples of Java code for each.

SECTION C

7. a) What are the advantages of using the packages? Explain.

   b) How packages are created in Java? Explain. Also explain the procedure to import package.

8. a) What is a vector? Illustrate its use with the help of a program.

   b) Given are two one-dimensional arrays A and B which are sorted in ascending order. Write a program to merge them into a single sorted array C that contains every item from arrays A and B, in ascending order.

9. Explain life cycle of an applet. How can you pass parameter to an applet from its HTML file? How does an applet retrieve the parameter value? Explain with the help of a program.