Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

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

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

INSTRUCTION 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. **Write briefly :**

   a) Why is object-oriented paradigm so called?

   b) What are applets?

   c) Why Java is a compiled and interpreted language?

   d) What is Java virtual machine?

   e) What are the stages in the lifecycle of an Applet?

   f) What is the purpose of the keyword super?

   g) Distinguish between a class and an object.

   h) What are the implications of public, protected and private visibility modes?

   i) What is multiple Inheritance?

   j)   What are the advantages of inheritance?

SECTION-B

2. What is the difference between a class and an object? What do you mean by the instantiation of an object? How instantiation is done in implicit and explicit forms?

3. What is an exception? How is an exception different from an error? Explain raising an exception and its handling in Java with example.

4. What are the various types of loops in Java? Compare them.

5. What are the operations that you can perform on vectors?

6. Explain various data-types of Java language.

SECTION-C

7. What are the main tags of HTML used in designing a web-page? Explain.

8. Write a program in Java to find the greatest among three numbers.

9. Explain expression evaluation in Java with the help of an illustrative example.