2012-15

Time : 4 hours

Full Marks : 80

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer any five questions.

1. (a) Write down the difference between C++ and java programming language.

   (b) What is the need of static method ? Explain why main method in java is always static.

2. 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 array A and B in ascending order.

3. How does string class differ from the string buffer class ?

4. Explain inheritance ? Why are abstract classes used in inheritance ? Write a program in java to explain the uses of abstract class in hierarchical inheritance.

5. What is an interface ? How to implement interface, discuss with suitable example. What are the difference between interface and class.

6. Why do applet classes need to be declared as public ? Develop an applet that receives three numeric values as input from the user and then displays the largest of the three on the screen.

7. Using applet create a web page which displays the following information of an employee employee name, employee age, employee destination, employee salary.

8. What do you mean by run time error and compile time error ? What are exceptions ? Discuss how to handle exception in java with suitable examples.

9. What is a thread ? How to create a thread ? Discuss the life cycle of a thread in detail.

10. Explain the following :

    (a) Java Virtual Machine (JVM)

    (b) Package

    (c) Polymorphism

——————— x ———————

(P-500)