

Paper Code: 3607  
Time: 02:30 Hours

Paper Title: Core Java

Marks: 70

Q1 Answer any FIVE from the following: [10]

- a. What is byte code?
- b. What is interface?
- c. Write the usage of break and continue statements.
- d. When do we declare a method final?
- e. Why do we need the import statement? Explain with example.
- f. What is the difference between this() and super()?
- g. What is synchronization?

Q2 Answer any FIVE from the following: [15]

- a. How java is different from C++? Explain
- b. What is dynamic method dispatch explain with example.
- c. What is the purpose of wait(), notify() and notifyAll() methods?
- d. Explain life cycle of applet.
- e. List out the properties of static variables and methods.
- f. Explain the use of 'super' keyword in java's inheritance concept with syntax.
- g. Explain any five methods of String class.

Q3 Answer any FIVE from the following: [25]

- a. Explain various stream classes of java.
- b. Explain about try – catch functionality in exception handling.
- c. Explain about abstract class and abstract methods.
- d. Write a java program to print sum of first 100 prime numbers.
- e. Write a short note on layout manager.
- f. Write a short note on arrays in java.
- g. What is the use of StringBuffer Class? Explain any five methods of StringBuffer class.

Q4 Answer any TWO from the following: [20]

- a. Explain AWT Controls – Button, Checkbox, Choice, List, TextArea.
- b. What is Deadlock? How deadlock occur in JAVA? Give suitable example.
- c. Write a java program to print common digit occurred in Fibonacci series and prime no series from 1 to 100.