Exam. Code : 105704

Subject Code : 1554

B.Sc. (Information Technology) Semester—IV

JAVA AND WEB DESIGNING

Paper–III

Time Allowed—3 Hours] [Maximum Marks—75

Note :– Attempt any **FIVE** questions. All questions carry equal marks.

1. Describe the following in context of object orientation :

    (a) Objects and classes. 5

    (b) Message passing. 5

    (c) Encapsulation. 5

2. Describe the following concepts :

    (a) Machine Independence. 5

    (b) Platform Independence. 5

    (c) Cross-platform computing. 5

3. What do you mean by the following characteristics of Java ?

    (a) Simple

    (b) Secure

    (c) Portable

    (d) Robust

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    (e)   Multi-threaded

    (f)   Architecture neutral

    (g)   Interpreted and compiled—both

    (h)   High performance

    (i)   Distributed

    (j)   Dynamic.   15

4. Describe :

    (i)   Data types of Java

    (ii) Operators of Java programming language.   15

5. Explain the working of various java control flow structures for :

    (i)   Iteration

    (ii) Branching.   15

6. Describe the concept of method overloading and method overriding in Java. Also describe the concept of constructor methods.   15

7. Describe the following topics in Java (give examples) :

    (a)   Packages and Interfaces   9

    (b)   String Handling.   6

8. Describe the following features of Java :

    (a)   Multithreading   7

    (b)   Exception handling.   8

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