BT-5/D-24   45171

ESSENTIAL OF INFORMATION TECHNOLOGY
PC-CS-305A

Time : Three Hours]   [Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Explain different types of Operators along with their Associativity and Precedence in JAVA.   8

   (b) What is a Constructor ? What are the various methods for Constructor Overloading ? Write a program in Java to perform Constructor Overloading.   7

2. (a) What is JVM (Java Virtual Machine) ? Explain its working.   5

   (b) Differentiate between Package and Interface by giving example.   5

(c) How Exceptions are handled in Java ?   5

Unit II

3. (a) What are Applets ? Explain the life Cycle of an Applet.   7

   (b) What are Event classes in JAVA ? How they are handled ?

4. (a) What are Container Classes ? Explain different types of it.   7

   (b) Write a program to create a Frame in AWT by extending Frame Class.   8

Unit III

5. (a) Write the difference between GET and POST methods of Servlets, why they are used ?

   (b) How parameters are passed to Servlets in program ?

6. Write notes on the following :

   (i) Session Tracking

   (ii) Cookies.

Unit IV

7. Explain the various steps to connect database in JAVA.

    15

8. (a) What are the differences between execute, executeQuery and executeUpdate ?   7

    (b) What are different JDBC API components ?   8