Eighth Semester Examination – 2008

CORE JAVA

Full Marks – 70

Time : 3 Hours

*Answer Question No. **1** which is compulsory and any **five** from the rest.*

The figures in the right-hand margin indicate marks.

1. Answer the following questions :   2×10

    (i)   Give an example of operator overloading in Java.

    (ii)   What is a static member ? How it is useful ?

    (iii) What are the meanings of abstract class and abstract method ?

    (iv)   Give differences between throw and throws.

    (v)   What do you mean by thread priority ?

    (vi)   Explain how a thread can be implemented.

    (vii) How a constructor differs from a method ?

    (viii) What is an Event ?

    (ix)   Can a top-level class be private or protected ? Explain.

    (x)   What is Unicode in Java ?

2. Elaborate on the features of Java that make it a powerful and popular programming language.
                                                10

3. What do you mean by inheritance ? How it is done in Java ? How super is used ? Explain how access specifier plays a role in inheritance. What is dynamic method dispatch ?   10

4. What is Delegation Event Model ? Explain different terms associated with event handling.
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5. What is a thread ? What are different ways of creating a thread in Java ? How can you achieve synchronization among threads ? 10

6. Discuss the applet architecture. What methods are involved in running of an applet ? Explain with examples the following methods : paint() and update(). 10

7. What is JDBC ? What are the different types of driver available ? 10

8. Explain briefly : 2.5×4

   (i) Serialization

   (ii) String Tokenizer

   (iii) Layout Manager

   (iv) Final.

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