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B. Tech
PEEC 5404

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 ?
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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