

II B.Tech I Semester Supplementary Examinations, November 2006
OBJECT ORIENTED PROGRAMMING THROUGH JAVA
(Common to Computer Science & Engineering, Information Technology
and Computer Science & Systems Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the Object oriented principle that is core of Java.
(b) How does Java differs with C language?
(c) Why is Java known as platform independent language? How is this achieved?
[5+5+6]
2. Explain the following in detail:
(a) Data abstraction
(b) packages
(c) constructors
(d) destructors. [4×4]
3. (a) Explain the overloaded version of insert() method of the String Buffer class. Illustrate its usage in Java program. Give output.
(b) Explain the substring () and reverse () methods of String Buffer class. [8+8]
4. Write a Java program to create an applet with six buttons representing your favorite six colors, when button is clicked, the background must change to the corresponding colour. [16]
5. (a) What do you mean by an exception and error? Give the hierarchy of the exceptions in java.
(b) List out the various java built-in exception handlers. [8+8]
6. Write about the various ByteStreams in java? [16]
7. Write a program to handle HTTP get request? [16]
8. What is Remote Method Invocation? Explain the creation of remote object, remote interface with suitable examples. [16]

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1. (a) What is object oriented programming? How is it different from procedure oriented programming?
(b) What are unique advantages of an object oriented paradigm? [8+8]
2. (a) What is operator overloading? Why is it necessary to overload an operator?
(b) Discuss the different ways by which we can access public member functions of an object? [8+8]
3. What is runtime polymorphism. Write a program to illustrate the concept of runtime polymorphism in Java? [16]
4. Describe about various components in Swing. [16]
5. A program throws an exception and the appropriate exception handler begins execution, and this exception handler in turns throws the same exception. Is this above approach creating an infinite recursion? Justify your answer with an example. [16]
6. Write a program to count the numbers of words by using StringTokenizer. [16]
7. What is the JDBC? Explain two-tier JDBC model and three-tier JDBC model. [16]
8. How to implement a remote interface? Explain in detail. [16]

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1. Explain how the Java language is well suited for the Internet applications. [16]
2. (a) What is multiple inheritance? Explain how does Java support multiple inheritance?
(b) Write about the data types supported by Java? [8+8]
3. (a) Define an interface? Write a program which illustrates the way to design and implement an interface.
(b) Give an example where interface can be used to support multiple inheritance. [8+8]
4. (a) Explain the goals of Swing.
(b) Explain the Swing architecture with a diagram. [8+8]
5. (a) What do you mean by an exception and error? Give the hierarchy of the exceptions in java.
(b) List out the various java built-in exception handlers. [8+8]
6. (a) How can characters be read in java?
(b) What is the strategy to read sentences in java? [8+8]
7. (a) Write about javax.servlet package?
(b) Write about java.sql package? [8+8]
8. What is network socket? Briefly explain the reserved sockets? [16]

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1. (a) Explain about Java class libraries.
(b) Explain about relational and logical operators with examples. [8+8]
2. Write short notes on the following:
(a) Packages
(b) data hiding
(c) inheritance [5+5+6]
3. (a) List out any five methods in String class.
(b) Explain about the StringTokenizer class. [8+8]
4. Write a Java program to create an applet with six buttons representing your favorite six colors, when button is clicked, the background must change to the corresponding colour. [16]
5. (a) What is an exception? How can java handle the exceptions? Illustrate with an example.
(b) Explain about various key words used in handling the exceptions. [8+8]
6. Write a program to implement all the file operations on a student database. [16]
7. Describe the various methods in HTTP Servlet request interface and HTTP Servlet response interface. [16]
8. Discuss briefly about the following:
(a) TCP
(b) UDP
(c) URL [5+5+6]
