

**II B.Tech II Semester Supplementary Examinations,
November/December 2005
OBJECT ORIENTED PROGRAMMING (THROUGH JAVA)
(Electronics & Computer Engineering)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) What are the drawbacks of structured procedural languages? Explain how Java solved these problems.
(b) How is portability achieved in Java?
(c) Write any five applications of OOP technology. [5+5+6]
2. (a) Explain with an example the main difference between overloading and over-riding?
(b) Describe the various forms of implementing inheritances? Give an example of code for each case? [8+8]
3. (a) What is the purpose of String Buffer class? Explain briefly is constructors?
(b) Explain the following methods of String Buffer class.
 - i. length()
 - ii. capacity()
 - iii. ensure Capacity()
 - iv. setlength() [8+8]
4. (a) Write a program that draws a series of eight concentric circles. The circles should be separated by 10 pixels.
(b) Write a program that randomly draws characters in different font sizes and colors. [8+8]
5. (a) Discuss about the nested try statement and how such a program may be executed?
(b) List out by an example the way to create a user defined exception. [8+8]
6. (a) Give a note about how multitasking is implemented in Java?
(b) How is synchronization enforced? [8+8]
7. Describe the various methods in HTTP Servlet request interface and HTTP Servlet response interface. [16]
8. (a) Write a client server program using java.net package. Where client sends messages and server should receive and print on its monitor.
(b) Give an overview of servlets. [8+8]

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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) How data and methods organized in an object oriented program?
(b) How the constructor in Java is implemented? What are its special properties?
(c) How many types of constructors are there in Java? Explain. [8+8]
3. (a) Write a Java program to illustrate the usage of the delete() and deleteAt() methods of the StringBuffer class. Give output.
(b) Explain any four methods of the StringBuffer class. [8+8]
4. (a) Describe about Event handling model? Explain about any three components in Swing.
(b) Write a program for creating and manipulating the radio button. [8+8]
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 find out the number of words in a given file. [16]
7. Describe the architecture of Servlet? What are the requirements for java Servlet? [16]
8. How can you create a custom RNI socket factory and how can you specify the socket factory in your application? Give an example. [16]

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1. Write a program that takes an integer value and returns the number with its digits reversed. [16]
2. (a) How is object oriented programming different from procedure oriented programming?
(b) Explain any two of the following.
 - i. Concrete class
 - ii. classes and objects [8+8]
 - iii. packages
3. (a) Compare and contrast the String class with StringBuffer class.
(b) Write a Java program to illustrate the usage of replace() method of String Buffer class. Give output. [8+8]
4. (a) Describe briefly event handling mechanism in Java.
(b) Explain Grid layout Manager with an example. [8+8]
5. Write short notes on the following:
 - (a) multithreading
 - (b) exception handling [8+8]
6. (a) Give an example program for creating a thread using runnable interface.
(b) What is a runnable interface and methods associated with it? [8+8]
7. (a) How can you establish a database connection using JDBC?
(b) Explain a basic JDBC servlet. [8+8]
8. How to write a RMI program? Explain with the help of a program. [16]

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1. Write a program segment that accomplishes each of the following.
 - (a) Calculate the integer part of Quotient when integer a is divided by integer b.
 - (b) Calculate integer remainder when integer a is divided by integer b.
 - (c) Use the program pieces developed in a) and b) to write a method displayDigit that receives an integer between 1 and 99999 and prints it as a series of digits, separated by one space and two successive integers by two spaces. For example, integers 4562 and 4563 should be printed as 4 5 6 2 5 6 2. [6+5+5]
2.
 - (a) What is inheritance and how does it help us to create new classes quickly?
 - (b) Describe the different forms of inheritance with examples? [8+8]
3.
 - (a) What is the purpose of String Buffer class? Explain briefly its constructors?
 - (b) Explain the following methods of String Buffer class.
 - i. length()
 - ii. capacity()
 - iii. ensure Capacity()
 - iv. setlength() [8+8]
4. Write a program that takes a list of numbers and sorts them in descending order. [16]
5. Why exception handling is considered as one of the important features in OOPS? Write your explanation with suitable examples. [16]
6. Write a program that uses a SequenceInputStream to output the contents of two files. [16]
7. Explain about the life cycle of a Servlet. Where does the basic Servlet fit into the Servlet framework? [16]
8. How to write a RMI program? Explain with the help of a program. [16]
