

Roll No. .... Total Pages : 2  
**8513**

**BT-5/D09**

**NETWORK PROGRAMMING**

(2005-06)

Paper : IT-355

Time : Three Hours]

[Maximum Marks : 100

**Note :** Attempt *five* questions in all, selecting at least *one* question from each unit.

**UNIT-I**

1. (a) Explain three object-oriented principles.  
(b) What is the difference between Methods and Constructors? Explain with example.  
(c) What is the purpose of garbage collection in Java and when is it used ?  
7,7,6
2. (a) What is the difference between String class and String buffer class ? Explain the operations on string handling.  
(b) What is the difference between Interface and Abstract class ? Explain.  
(c) Why is multiple inheritance not allowed in Java ?  
10,5,5

**UNIT-II**

3. (a) What are Packages ? How access protection is maintained with packages ? Explain.  
(b) Differentiate "Exception and Error" and "Throw and throws".  
(c) What will happen to the exception object after exception handling ? Explain.  
10,5,5

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4. (a) What is Multithreaded programming ? What is the difference between Thread and Runnable type ?  
(b) Explain wait(), notify() and notifyall() methods using suitable program. 10,10

### UNIT-III

5. (a) What are the Applet's life-cycle methods ? Explain them with suitable program.  
(b) How do Applets differ from Java applications ?  
(c) What are the advantages and disadvantages of Java sockets ? 10,5,5
6. (a) What is Java container class ? Explain four container classes with example.  
(b) What are JDBC architectural components ? Explain different JDBC drivers. 10,10

### UNIT-IV

7. (a) Discuss Servlet life-cycle in detail.  
(b) Explain Adapter classes with suitable program. 10,10
8. Discuss the following :  
(a) Advantages of Java servlets in Web application development.  
(b) Single thread model.  
(c) Event handling in Java.  
(d) AWT. 20