

ADVANCED JAVA PROGRAMMING

INDEX:

1. Java Database Connectivity
 - a. JDBC Overview
 - b. Architecture
 - c. Drivers
 - d. Connection Statements
 - e. Result Sets
 - f. Examples
 - g. Test Paper
2. Java Servlets
 - a. Introduction to Servlet
 - b. HTTP Servlet Basics
 - c. Servlet Life Cycle
 - d. Making session and cookies in servlet
 - e. Servlet with JDBC
 - f. Servlet Methods
 - g. Examples
 - h. Test Paper
3. Multi Threaded Programming
 - a. Life Cycle of a Thread
 - b. Using thread methods
 - c. Thread Exception
 - d. Thread Priority
 - e. Thread Synchronization
 - f. Implementing the 'Runnable' interface
 - g. Examples
 - h. Test Paper
4. The Applet
 - a. Applet Basics
 - b. Applet Architecture
 - c. An Applet Skeleton
 - d. Applet Display methods
 - e. Repainting
 - f. Applet Tag
 - g. Passing parameters to Applet
 - h. Examples
 - i. Test Paper

5. Java Network Programming
 - a. TCP/IP Basics
 - b. Network Addressing
 - c. DNS – Domain Name Services
 - d. Ports and Sockets
 - e. Client Server Programming (TCP/UDP)
 - f. Introduction to RMI
 - g. Object Serialization
 - h. Client Server Programming using RMI
 - i. Examples
 - j. Test Paper
6. Java Server Pages
 - a. Basics
 - b. Directives (page, include, taglib)
 - c. Scripting Elements
 - d. Life Cycle of JSP
 - e. JSP and Java Beans
 - f. Error Handling with JSP
 - g. JSP with JDBC
 - h. Examples
 - i. Test Paper
7. Java Beans and Swing
 - a. Bean Concept
 - b. Events in Bean
 - c. Bean Customization
 - d. Persistence
 - e. JAR file handling
 - f. Examples
 - g. Test Paper
8. Frameworks
 - a. Basics of Struts
 - b. Basics of Spring
 - c. Basics of Hibernate
 - d. JMS – Java Mail
 - e. Examples
 - f. Test Paper
9. Java Development
 - a. IDE available in Market
 - b. Plug-ins
 - c. Code Optimization Using tools (Find Bugs etc)
 - d. Unit Testing