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Question Paper Code : 31281

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Sixth/Seventh Semester

Computer Science and Engineering

CS 2023/CS 603/CS 1008/10144 CSE 13 — ADVANCED JAVA PROGRAMMING

(Common to Information Technology)

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. **What is the use of FilterInputStream class?**
2. **When will the BufferedInputStream and BufferedOutputStream are used?**
3. **Specify whether swing components are lightweight components or heavyweight components.**
4. **Compare network connection using Socket, URL and Java Messaging Service.**
5. **What is the basic principle of RMI architecture?**
6. **Write two differences between RMI and CORBA.**
7. **What is the difference between doGet() and doPost()?**
8. **What are implicit objects?**
9. **What is the use of session bean?**
10. **State the role of EJBHome object.**

PART B — (5 × 16 = 80 marks)

11. (a) (i) **Discuss the methods used to retrieve data from byte array. (8)**
(ii) **Explain the functions of JIT compiler. (8)**

Or

- (b) (i) Explain the mechanism used to handle multi threads in java. (8)
- (ii) Explain any two swing components used to display highly formatted and interactive information. (8)
12. (a) (i) Discuss the steps involved in creating the client and server side of a socket. (8)
- (ii) Write a Java program to send and receive a mail using socket. (8)

Or

- (b) (i) Describe the mechanism to allow multiple clients to access a server through a socket. (6)
- (ii) Write a Java program to retrieve the information from the server using a URL Connection. (10)
13. (a) (i) Explain bind() and lookup() methods in RMI. (8)
- (ii) Explain the role of stubs and skeletons in RMI. (8)

Or

- (b) (i) Explain the services provided by Object Request Broker. (10)
- (ii) Discuss the role of IDL in CORBA. (6)
14. (a) (i) Explain the mechanisms used for session tracking. (10)
- (ii) Explain the way of invoking servlet in the applet. (6)

Or

- (b) (i) Explain the features of different types of JDBC driver. (10)
- (ii) Discuss the components of Java Media Framework. (6)
15. (a) Explain container managed persistent bean and entity managed persistent bean with suitable examples. (16)

Or

- (b) (i) Write a Java program to create session bean to do authentication. (8)
- (ii) Explain the functions of EJB components in web applications. (8)