

Short Questions

- 1. Explain the concept of batch processing in JDBC.
- 2. How are batch statements executed in JDBC?
- 3. Discuss the InetAddress class and its methods in Java networking.
- 4. Explain the URL class and its significance in Java networking.
- 5. What are sockets, and how do they enable communication between client and server applications?
- 6. Describe the difference between TCP and UDP sockets.
- 7. How are TCP sockets established in Java?
- 8. What is DatagramPacket in Java networking?
- 9. How does DatagramSocket work in UDP socket programming?
- 10. Describe the characteristics of Java Beans.
- 11. Explain the components of a Java Bean.
- 12. What is the purpose of RMI registry in Java RMI?
- 13. How can you create a remote interface in RMI?
- 14. Discuss the steps involved in implementing RMI in Java.
- 15. What is stub and skeleton in RMI?
- 16. Explain the concept of serialization in RMI.
- 17. How do you create a server application using RMI?
- 18. Describe the role of the Naming class in RMI.
- 19. What are the advantages of using Java Beans in software development?
- 20. How can you create a Java Bean using IDEs like Eclipse or NetBeans?
- 21. Discuss the properties of a Java Bean.
- 22. Explain the significance of event handling in Java Beans.
- 23. What is property change listener in Java Beans?
- 24.Describe the event handling mechanism in Java Beans.
- 25. How can you use Java Beans in graphical user interface development?
- 26. What is a Java applet, and how does it differ from a standalone Java application?
- 27. Describe the life cycle of a Java applet.
- 28. How can images be added to a Java applet, and what is their significance?
- 29. Explain the process of adding sound to a Java applet.
- 30. What methods are available for passing parameters to a Java applet?
- 31. Discuss the concept of event handling in Java applets.
- 32. What are AWT controls, and how are they used in Java applications?
- 33. How does AWT handle windows, graphics, and text in Java?
- 34. Explain the role of layout managers in Java AWT.
- 35. Describe the implementation of menus in Java AWT applications.
- 36. What is a servlet, and what is its life cycle?
- 37. Discuss the components of the Servlet API and their functionalities.
- 38. How are HTTP requests and responses handled in servlets?
- 39. Explain the usage of cookies in servlet-based applications.



- 40. Describe the various techniques for session tracking in servlets.
- 41. What is JSP, and how does it complement servlets in web development?
- 42. How does XML facilitate data structuring and exchange between applications?
- 43. Describe the structure and content of a WSDL document.
- 44. What is the role of UDDI in web services, and how does it enable service discovery?
- 45. Discuss the architecture and characteristics of RESTful web services.
- 46. How can SOAP message-level security be implemented in Java web services?
- 47. Explain the significance of JSON in web services and its advantages.
- 48. What are web resources, and how are they identified and accessed in RESTful architecture?
- 49.Discuss the HATEOAS principle and its impact on RESTful web services.
- 50.Describe the advantages of using HTML5 and CSS3 in web development.
- 51. How does JavaScript enhance the interactivity of web pages?
- 52. What is dynamic memory allocation, and why is it important in C programming?
- 53. Explain the concept of recursion and its limitations in programming.
- 54. How are functions declared and implemented in structured programming?
- 55. Discuss the role of parameters and return types in function declaration.
- 56. Explain the concept of call by value and call by reference in function arguments.
- 57. What are the limitations of recursive functions, and how can they be mitigated?
- 58.Describe the process of dynamic memory allocation in C programming.
- 59. How is memory allocated and freed in C for arrays of different data types?
- 60. Explain the purpose of InetAddress and URL classes in Java networking.
- 61. What are sockets, and how do they enable communication between client and server applications?
- 62. Describe the difference between TCP and UDP sockets.
- 63. How are TCP sockets established and used in Java networking?
- 64. Discuss the DatagramPacket and DatagramSocket classes in UDP socket programming.
- 65. What are Java Beans, and what are their characteristics?
- 66.Describe the process of implementing RMI in Java for remote method invocation.
- 67. How do stubs and skeletons facilitate communication in RMI?
- 68. Explain the concept of serialization in RMI and its importance.
- 69. What steps are involved in creating a server application using RMI?



- 70.Describe the role of the Naming class in RMI for service registration and lookup.
- 71. How can you create a Java Bean, and what are its properties?
- 72. Discuss the significance of event handling in Java Beans.
- 73. What is the purpose of property change listeners in Java Beans?
- 74. How do you use Java Beans in graphical user interface development?
- 75. Explain the importance of utility classes in Java programming, and give examples of commonly used ones.
- 76. What is XML, and how is it different from HTML?
- 77. Explain the structure of an XML document.
- 78. What are XML namespaces, and why are they used?
- 79. What is XSL, and how does it relate to XML?
- 80. Describe the purpose of XSLT in XML document transformation.
- 81. What are web services, and how do they facilitate interoperability?
- 82. Discuss the role of UDDI in web services.
- 83. Explain the significance of WSDL in web services.
- 84. How are Java web services implemented and consumed?
- 85. What are web resources, and how are they used in web development?
- 86. How is form navigation achieved in XML?
- 87. Describe the process of creating XML documents.
- 88. How does XSL transform XML documents into different formats?
- 89. Discuss the concept of SOAP in web services.
- 90. What are RESTful services, and how do they differ from SOAP services?
- 91.Explain the role of JSON in web services.
- 92. How does WSDL define the interface of a web service?
- 93. What is the purpose of XML in web services?
- 94.Describe the structure of a WSDL document.
- 95. How do Java web services communicate over the internet?
- 96.Discuss the various types of web resources.
- 97. What is the significance of XML in web development?
- 98. How does XSLT transform XML data into HTML for web display?
- 99. Explain the importance of XML namespaces in XML documents.
- 100. How are XML documents validated against XML schemas?
- 101. Describe the process of consuming a web service in Java.
- 102. What are the advantages of using web services in modern applications?
- 103. Discuss the role of UDDI in web service discovery.
- 104. How does WSDL describe the functionality of a web service?
- 105. What are the characteristics of well-formed XML documents?
- 106. Explain the purpose of XML documents in web development.
- 107. How do Java web services handle HTTP requests and responses?
- 108. Discuss the components of a web service architecture.



- 109. What are the key features of XML?
- 110. Describe the process of parsing XML documents.
- 111. How do XSL templates transform XML data into other formats?
- 112. Discuss the benefits of using XML in data exchange.
- 113. Explain the role of XML in web service communication.
- 114. How does XML enable platform-independent data exchange?
- 115. What are the different types of web services?
- 116. Describe the components of an XML document.
- 117. Explain the concept of XML validation.
- 118. What are the advantages of using XML over other data formats?
- 119. Discuss the role of XML in data storage and retrieval.
- 120. How are XML documents structured?
- 121. Explain the purpose of XSLT in XML document processing.
- 122. What is the role of XML namespaces in XML documents?
- 123. Describe the process of transforming XML data using XSLT.
- 124. How are XML documents used in web development?
- 125. Discuss the relationship between XML and web services.