Short Questions

1. What are the basic tags in HTML?
2. How do you create lists in HTML?
3. Explain the structure of an HTML table.
4. How can you add images to an HTML webpage?
5. What are HTML forms used for?
6. Describe the purpose of frames in HTML.
7. What is CSS and how is it used in web development?
8. Explain the concept of JavaScript and its role in web page designing.
9. What are JavaScript objects?
10. Define JavaScript literals.
11. What are JavaScript operators and expressions?
12. Describe the different types of statements in JavaScript.
13. What are events in JavaScript?
14. How can you handle window events in JavaScript?
15. Explain the role of the document object in JavaScript.
16. What is the purpose of frames in JavaScript?
17. Describe the data types supported in JavaScript.
18. What are built-in functions in JavaScript?
19. Explain the Browser Object Model (BOM) in JavaScript.
20. How do you verify forms using JavaScript?
21. What are the key features of HTML5?
22. Discuss the enhancements introduced by CSS3.
23. What is the HTML5 canvas element used for?
24. How can website creation be simplified using tools?
25. What are the advantages of using HTML5 over previous HTML versions?
26. Describe the structure of an HTML5 document.
27. Explain the use of the <header> and <footer> tags in HTML5.
28. How does HTML5 support multimedia elements?
29. What are semantic elements in HTML5?
30. Describe the purpose of CSS media queries in responsive web design.
31. How can you create rounded corners in CSS3?
32. Explain the difference between absolute and relative positioning in CSS.
33. What is the significance of the z-index property in CSS?
34. Describe the role of the <canvas> tag in HTML5.
35. How can you draw shapes on an HTML5 canvas?

36. What are some commonly used website creation tools?
37. Explain the purpose of the <article> tag in HTML5.
38. What is the role of JavaScript libraries like jQuery in web development?
39. How can you embed video and audio content in HTML5?
40. Discuss the benefits of using responsive web design techniques.
41. What are the advantages of using CSS preprocessors like Sass or LESS?
42. Describe the purpose of the <nav> tag in HTML5.
43. How do you create a basic HTML form?
44. Explain the concept of form validation in HTML.
45. What are the benefits of using HTML5 semantic markup?
46. How can you embed a Google Map on a webpage?
47. Describe the role of JavaScript frameworks like AngularJS or React.
48. What is the purpose of the <section> tag in HTML5?
49. How can you create a drop-down menu using CSS?
50. Discuss the importance of web accessibility in modern web design.
51. What are the key features of object-oriented programming (OOP)?
52. Explain the concept of encapsulation in Java.
53. What is inheritance in Java, and how does it promote code reuse?
54. Describe the role of classes and objects in Java programming.
55. What is the significance of packages in Java, and how are they used?
56. Discuss the benefits of using interfaces in Java programming.
57. How does exception handling help in writing robust Java programs?
58. Explain the concept of multithreaded programming in Java.
59. What are the different types of control statements available in Java?
60. Describe the role of arrays in Java, and explain different ways of declaring them.
61. What are the various data types supported by Java?
62. How are variables declared and initialized in Java?
63. Discuss the importance of operators in Java programming.
64. What is method overloading in Java, and how is it implemented?
65. Explain the concept of method overriding in Java.
66. How does Java handle input and output operations?
67. Describe the role of files in Java programming, and how are they manipulated?
68. What are utility classes in Java, and how are they used?
69. Explain the concept of string handling in Java.
70. How are exceptions categorized in Java, and what are checked and unchecked exceptions?

71. Discuss the significance of the try-catch-finally block in exception handling.
72. What is the purpose of the throws keyword in Java exception handling?
73. Describe the steps involved in creating and using a thread in Java.
74. How does synchronization help in multithreaded programming?
75. What is the difference between sleep() and wait() methods in Java threads?
76. Explain the concept of input stream and output stream in Java I/O operations.
77. How are data read from and written to files in Java?
78. Describe the FileInputStream and FileOutputStream classes in Java.
79. What are the FileReader and FileWriter classes used for in Java?
80. Explain the purpose of BufferedReader and BufferedWriter classes in Java.
81. How are exceptions propagated in a multithreaded environment in Java?
82. Discuss the role of the java.lang.Math class in Java programming.
83. What are wrapper classes in Java, and how are they used?
84. Explain the concept of autoboxing and unboxing in Java.
85. Describe the role of the java.util.Scanner class in Java programming.
86. How are regular expressions used in Java for pattern matching?
87. Discuss the StringBuilder and StringBuffer classes in Java.
88. What is the purpose of the java.util.Arrays class in Java programming?
89. How are StringTokenizer and String.split() methods used for string tokenization in Java?
90. Explain the concept of method chaining in Java.
91. Describe the role of the Comparable and Comparator interfaces in Java.
92. How are custom exceptions defined in Java?
93. Discuss the significance of the finalize() method in Java.
94. What are anonymous classes in Java, and how are they used?
95. Explain the concept of inner classes in Java.
96. What are the advantages of using inheritance in Java?
97. Describe the differences between abstract classes and interfaces in Java.
98. How are static and instance variables different in Java?
99. Discuss the role of the equals() and hashCode() methods in Java.
100. What is method visibility, and how is it controlled in Java classes?
101. What is JDBC and its purpose in Java programming?
102. Explain the steps involved in establishing a JDBC connection.
103. What is the significance of the Connection class in JDBC?

104. Describe the role of the Statement interface in JDBC.
105. How are database results caught and handled in JDBC?
106. What are the different types of JDBC statements? Explain each.
107. Discuss the differences between execute(), executeQuery(), and executeUpdate() methods in JDBC.
108. How can you handle database queries in JDBC?
109. What is networking in Java, and why is it important?
110. Explain the InetAddress class in Java networking.
111. How is the URL class used in Java networking?
112. What are TCP sockets, and how are they used for communication?
113. Describe the concept of UDP sockets in Java networking.
114. Explain the basics of Java Beans.
115. What is RMI (Remote Method Invocation) in Java?
116. How does RMI facilitate communication between distributed Java applications?
117. Describe the steps involved in creating a JDBC connection in Java.
118. What are the different types of JDBC drivers? Explain each.
119. Discuss the role of the DriverManager class in JDBC.
120. How can you handle exceptions in JDBC programming?
121. Explain the purpose of prepared statements in JDBC.
122. What are the advantages of using prepared statements over regular statements in JDBC?
123. Describe the ResultSet interface in JDBC.
124. How can you iterate over a ResultSet in JDBC?
125. What is connection pooling in JDBC, and why is it used?