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| 1 | Give the historical background of Java. What are the characteristics of Java Programming language?   |
| 2 | How Java applications are different from Java applets.<br>Java programming is also called internet programming. Comment.<br>What you mean by a class. What are the various elements of a class?  |
| 3 | Discuss briefly <ul style="list-style-type: none"> <li>a) SMTP</li> <li>b) FTP</li> <li>c) NNTP</li> <li>d) WWW</li> <li>e) Chat &amp; bulletin board</li> </ul>   |
| 4 | What you mean by inheritance. Differentiate between single inheritance & multiple inheritance. What are abstract classes?  |
| 5 | Write short notes on <ul style="list-style-type: none"> <li>a) APIs</li> <li>b) Servlet life cycle</li> <li>c) JTable class</li> <li>d) AWT</li> <li>e) Swing</li> </ul>   |
| 6 | Explain with examples <ul style="list-style-type: none"> <li>a) Method overloading</li> <li>b) Method overriding</li> <li>c) Constructor overloading</li> <li>d) Super constructor</li> <li>e) Anonymous classes</li> </ul>  |
| 7 | What is the meaning of the following terms <ul style="list-style-type: none"> <li>a) throwing an exception</li> <li>b) extending the base class</li> <li>c) creating the instance of an object</li> <li>d) references versus pointers</li> <li>e) Java run-time environment</li> </ul> |
| 8 | What you understand by wrapper classes. Give various search engines available. What is the E-mail architecture?  |