Q.1  a. Write short note on cookies.
   
b. What are the advantages and disadvantages of client server model?
   
c. What are the differences between XML and SGML?
   
d. What is the role of DTD in XML?
   
e. What are the differences between programming and scripting languages?
   
f. What are the difference between servlet’s doGet() and doPost() method?
   
g. What are the different features of java bean? \(7 \times 4\)

Q.2  a. What is JavaScript? What are the properties of JavaScript? Create a JavaScript based web page to call a function on button click. \(2+3+4\)
   
b. What is DNS? How does DNS work? How web server is related with DNS? \(3+3+3\)

Q.3  a. What is HTTPS? How does the HTTPS works? What are the differences between HTTP and HTTPS? \(3+3+3\)
   
b. How is a web server different from a proxy server? \(4\)
   
c. Describe Virtual Private Network. \(5\)

Q.4  a. What are pros and cons of an applet? Create an applet program to pass a value into an applet. \(4+5\)
   
b. What is a socket? Describe different types of sockets. What are the applications of socket programming? \(3+3+3\)
Q.5  a. What are the differences between RMI and CORBA? Create an application using RMI.  
     (4+5)

     b. What are the differences between Statement and PreparedStatement interface? Create a JDBC program to update data into database using PreparedStatement and type – 1 driver.  
     (4+5)

Q.6  a. What is software component model? Discuss different types of client side and server side component model.  
     (3+3+3)

     b. What is JSP? Why JSP is slower than servlet? Create a JSP program to access a java bean.  
     (3+3+3)

Q.7  a. Why session management is necessary? Discuss in detail about several session management techniques.  
     (3+6)

     b. What is the role of servlet in web application? What are the differences between HttpServlet and GenericServlet? Create the structure of deployment discripeter web.xml.  
     (3+3+3)