

**ANNA UNIVERSITY CHENNAI**  
**B.E DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2013**  
**BRANCH: COMMON TO CSE & IT**  
**FOURTH SEMESTER – REGULATIONS 2008**

CS9253 – WEB TECHNOLOGY

Time: Three hours

Max.Marks:100

**Answer All Questions**  
**Part – A (10X2 = 20 Marks)**

1. Compare and contrast java with c++..
2. Write a program to read the contents of a text file one line at a time and print the lines with line numbers.
3. What is difference between the Reader/Writer class hierarchy and the InputStream/OutputStream class hierarchy?
4. Write a short note on mouse and keyboard events.
5. Write a simple program, which can be used as an application as well as an applet.
6. What are the steps required to execute a query in JDBC?
7. Write a HTML code to divide the page horizontally into two parts using frames.
8. Write a short note on XML parser.
9. How session tracking is to be carried out using HttpSession?
10. Compare JSP with Servlet.

**PART –B (16 x 5 = 80 marks)**

11. (a) (i) Develop a Library interface which has drawbook(), returnbook() (with fine), checkstatus() and reservebook () methods. All the methods tagged with public. (8)  
(ii) Explain Static and Runtime polymorphisms with suitable examples. (8)
12. (a) (i) Describe the life cycle of threads briefly. (6)  
(ii) Write socket programs using TCP/IP to reverse a given string on the server in the following manner.
  - Server should perform the reverse string function.
  - Client will supply the string and the result should be displayed on the client side.(10)(Or)
- (b) (i) Describe the text area class and check box class with example. (6)  
(ii) Write socket programs using UDP/IP to echo a given string in the following manner.
  - Client has to send a string to the server.
  - Server should echo back the string to the client.
  - Client on pressing 'z' can disconnect from server.(10)
13. (a) (i) What is DriverManager? Describe the various types of JDBC drivers briefly. (6)  
(ii) Explain the life cycle of applets in detail. (10)  
(Or)
- (b) (i) List any three Swing GUI components and describe them briefly. (6)  
(ii) Develop an RMI application in which a client applet invokes a method on a remote object to retrieve the contents of text file, line by line, with time duration of 10 seconds between retrieval of each line. The retrieved line has to be shown in a text field of an applet. (10)
14. (a) (i) How can you call an applet from a HTML file? How values are passed from HTML page to the applet? Discuss with an example. (6)  
(ii) Write an XML document with DTD which details a purchase order for various items. The document should contain specific information about the products ordered. (10)  
(Or)
- (b) (i) Explain in detail about different tags and attributes to create HTML table with an example.  
(ii) Write an XML document with DTD which provides a student record for various fields. (10)
15. (a) Describe the four scopes of implicit object of JSP which provide access to many servlet capabilities within JSP.  
(Or)
- (b) Discuss elaborately about the servlet interface and servlet life cycle in detail.