BICS-023

B.TECH. COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

December, 2013

BICS-023 : WEB TECHNOLOGY

Time : 3 hours   *Maximum Marks : 70*

Note :   *Attempt **any seven** questions out of **ten**. Each question carry **equal** marks.*

1.   (a)   What are the major goals of the EJB   5
          specifications ?
     (b)   Compare and contrast HTML and XML.   5

2.   Explain the various purposes for which we use   10
     session tracking. Also, explain in brief the two
     ways to handle session tracking in servlets.

3.   (a)   Explain the life cycle of stateless and stateful   6
          session bean.
     (b)   Distinguish between Bean Managed and   4
          Container Managed persistence for entity
          Beans.

4.   Describe with suitable program fragments how   10
     you can include files and Applets in a JSP page.

5.   How do you use JDBC to Query and modify a   10
     database ? Explain with an example.

6.   (a)   List the methods in request object.   5
     (b)   Describe DOM and SAX.   5

7. What are the different ways in which a client can **10** authenticate a user to a web server ? Explain how HTTPS client authentication works.

8. List the package required for using JDBC 3.0 API **10** in an application. Explain the four types of drivers available with JDBC and their use.

9. (a) Explain how cookies can be used for session **5** tracking in servlets.
   (b) Explain how images can be inserted into a **5** HTML document.

10. Write short notes on **any two** of the following :
    (a) Planning and Process Development. **5x2=10**
    (b) Struts framework.
    (c) Error Handling and debugging.

———