| BICS-023 |

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

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Term-End Examination

December, 2016

BICS-023 : WEB TECHNOLOGY

Time : 3 hours   *Maximum Marks : 70*

Note : *Attempt any **seven** questions. All questions carry equal marks.*

1. (a) What are web applications ? Explain the
         request-response model of web application.   **5**

    (b) What is CSS ? Explain with an example
         why CSS is used.   **5**

2. (a) Explain the following HTML tags and their
         main attributes :   **5**
         (i)   <a>
         (ii) <form>

    (b) What is XML ? Differentiate between
         HTML and XML.   **5**

3. (a) Differentiate between SAX and DOM parsers. *5*

   (b) What is an object in JavaScript ? How is it different from primitive data types ? *5*

4. Describe EJB architecture and its components in brief. *10*

5. What are HttpServletRequest and HttpServletResponse ? Explain the life cycle of a servlet and describe how dynamic content is generated using a servlet. *10*

6. What is JDBC ? Write the JDBC code for database connection. Also explain the use of commit and rollback in JDBC transaction. *10*

7. (a) Explain XML document and schema with the help of examples. *5*

   (b) What is an entity bean ? How is it different from a session bean ? *5*

8. (a) Write a JSP program to add two numbers. *5*

   (b) Explain how data can be shared between two JSP pages using a session object. *5*

9. What is session tracking ? Explain any *two* of the following approaches for session tracking : *10*

   (a)   Cookies

   (b)   Hidden Form Fields

   (c)   URL Rewriting

10. Write short notes on any *two* of the following : *2×5=10*

   (a)   Struts Framework

   (b)   Web Security

   (c)   Error Handling in JSP