B.Tech

(SEM VII) ODD SEMESTER THEORY EXAMINATION 2009-10
INTRODUCTION TO WEB TECHNOLOGY

Time : 3 Hours]   *[Total Marks : 100*

Note :   *Attempt all questions.*

1   Attempt any four parts of the following :   4×5=20

   (a)   What are the differences between a traditional project and a Web Project? Also write down some objectives to develop a Web project.

   (b)   Who are the people that you need to develop your Web site? What are the essential skills that must be identified while selecting the members of a team?

   (c)   Why is the testing of Web sites very essential before their actual implementation?

   (d)   What are the differences between developing a site for a corporate world and developing a site for individual?

(e) Name some tools along with their applications that may be used for developing Web sites.

(f) Why is it very important to identify the target users of your Web site? How do you select contents for your Web site?

2 Attempt any four parts of the following : 4×5=20

(a) Differentiate between the following :

(i) HTML and DHTML

(ii) ROWSPAN and COLSPAN

(b) How will you create hyperlinks in Web documents? Discuss on different attributes of creating a hyperlink.

(c) Justify the need for client side scripting languages. How do you perform client side validation using JavaScript?

(d) What are cascading style sheets and how are they coded? Explain them with an example.

(e) What is XML? Explain the parsing in XML. Also mention the applications of XML.

(f) Write a short note on DOM.

3 Attempt any four parts of the following : 4×5=20

(a) What is Java Bean? What are its major services?

(b) Explain the applications of EJB. How it differs with Java Beans?

(c) Explain the advantages of using servlets for server side programming. What are the packages that support servlets?

(d) Explain the life cycle of a servlet.

(e) What do you mean by cookie? Create a cookie that counts the number of accesses to a Web page?

(f) Name the methods of ServletRequest class and explain their usage.

4 Attempt any four parts of the following : 4×5=20

(a) What is the functionality of JSP? What are the advantages of JSP over various server side programming techniques?

(b) Explain the various components of JSP in detail.

(c) How does JSP handle runtime exceptions?

(d) What are implicit objects available to JSP page? - Explain.

(e) Write a short note on Tomcat Server.

(f) What are sessions? How do you enable and disable sessions using JSP?

5   Write short notes on any two of the   **10×2=20**
     following :

   (i) Database programming using JDBC

   (ii) Accessing a database from a JSP page

   (iii) Developing Java Beans in a JSP page