

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 2477 Roll No.

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B. Tech.

(SEM. VI) THEORY EXAMINATION 2010-11

WEB TECHNOLOGY

Time : 2 Hours

Total Marks : 50

Note :— Attempt **all** questions. Be precise in your answer.

1. Attempt any **four** parts of the following :— (3×4=12)
 - (a) Explain the different browsing mechanism available on Internet. How does a web server work ?
 - (b) What are protocols ? Describe the various layers with functions and protocol in TCP/IP and compare with OSI model.
 - (c) Explain the concept of URL and IP address. Also describe the various fields in IP data gram header. How an IP Address is assigned to host ?
 - (d) What is Remote login and TELNET ? Explain the working and use of TELNET tool on the Internet in brief.
 - (e) What are the various characteristics of a web project ? What points should be considered in defining a project ?
 - (f) Write down the evolution of the web team and how many types of web team have ? How do Web team members interact ?

2. Answer any **four** parts of the following :— (3×4=12)
- (a) Explain the HTML tags for Tables, Frames, and Forms with the help of suitable examples.
 - (b) What is the need for dynamic web pages ? List the steps involved in the retrieval of a dynamic web page. What are the advantages and issues involved in dynamic web pages ?
 - (c) Explain the term Document Type Definition (DTD) with the help of suitable examples.
 - (d) What is XML ? Discuss the significance of XML. How is XML different from HTML ? Explain the process of XML parsing. How are they useful ?
 - (e) What do you mean by CSS ? In how many ways it can be applied to a HTML document ? Create a simple CSS to display your XML data.
 - (f) Explain the role of SAX and DOM in XML document verification.

3. Answer any **two** parts of the following : (6.5×2=13)
- (a) What do you mean by event ? How event handling is done in JAVA SCRIPT ? Write a program to create an applet, window completely Black in colour to start with that becomes brighter and brighter as you go on clicking the mouse.
 - (b) Develop an HTML and java script document to evaluate the roots of the quadratic equation. Explain each step clearly.
 - (c) What do you mean by AJAX ? Explain the application of AJAX with the help of suitable examples.

4. Answer any **two** parts of the following : (6.5×2=13)
- (a) Describe the ASP Model. How does ASP score over CGI ?
 - (b) Write down the short note on the following :
 - (i) COM/DCOM
 - (ii) Accessing a Database from a JSP page.
 - (c) What is the functionality of JSP ? What are the advantages of JSP over various server side programming techniques ? How does JSP handle runtime exceptions ?