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

PAPER ID : 2477 **Roll No.** [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

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 ?