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

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

B. Tech.

(SEM. VI) THEORY EXAMINATION 2011-12

WEB TECHNOLOGY

Time : 2 Hours   *Total Marks : 50*

Note :—(1)   Attempt *all* questions.

(2)   Be precise in your answer.

1. Attempt any *four* parts of the following :—   **(3×4=12)**

    (a)   What are protocols ? Explain the working of CSMA/CD protocol.

    (b)   Explain the use and working of FTP tool on the Internet in brief.

    (c)   Differentiate between Web browser and Web server. How does a Web server work ?

    (d)   What do you mean by MIME, SMTP and IMAP ?

    (e)   Discuss the various Web project development phases.

    (f)   What is Virtual Management ? How one can manage a virtual team ?

2. Attempt any *four* parts of the following :—   **(3×4=12)**

    (a)   Make a difference table for Static Web page, Dynamic web page and Active web pages.

    (b)   Discuss how frames play a big role in advertising on web. What roles do form play in making web page Dynamic ?

(c) What is Domain Name System (DNS) ? How the DNS server works ? What is the need for additional suffix such as com, edu, Gov ?

(d) What is XML ? Create a XML document of 10 students of final MCA. Add their roll numbers, marks obtained in 5 subjects, total marks and percentage. Save this XML document at the server, write a program that accepts student's roll number as input and returns the students marks, total and percentage by taking the student's information for XML document.

(e) What do you mean by CSS ? Write a CSS rule that makes all the text 2.5 times larger than the base font of the system.

(f) Explain the term Document Type Definition (DTD) with the help of suitable examples.

3. Attempt any *two* parts of the following :— (6.5×2=13)

(a) What is the difference between JAVA and JAVA SCRIPT ? How is Java strongly associated with internet ? Draw a flowchart to show how various Java tools are used in application development.

(b) Discuss how CGI works at a conceptual level. What is the biggest disadvantage of CGI ?

(c) What are exceptions and how they are handled ? Explain with an example. How we define a try and catch block ? Is it essential to catch all types of exceptions ?

4. Attempt any *two* parts of the following :— (6.5×2=13)

(a) Is COM same as DCOM ? If not, what are the differences between them ? Describe the importance of COM/DCOM in making commercial website.

(b) Write down short notes on the following :—

(i) Database Programming using JDBC

(ii) TOMCAT Servers.

(c) What is JSP ? What are the advantages of JSP over CGI ? Also explain the various component of JSP in detail.