

(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 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 ?

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.