

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

PAPER ID : 0100

Roll No.

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**B. Tech.**

(SEM. VII) ODD SEMESTER THEORY EXAMINATION

2010-11

**INTRODUCTION TO WEB TECHNOLOGY**

Time : 3 Hours

Total Marks : 100

**Note :** (1) Attempt all questions.

(2) All questions carry equal marks.

1. Attempt any **four** parts of the following : (5×4=20)
  - (a) What do you mean by Protocol ? Name three protocols that govern the web and explain them.
  - (b) Why are the cyber laws required ? Write a short note on Indian Cyber Law.
  - (c) Discuss the working of SMTP and POP servers in brief.
  - (d) What are the essential skills that must be identified while selecting the members of a web project team ?
  - (e) Briefly discuss the main steps involved in the content planning process.
  - (f) Define and explain the terms quality assurance and testing in the field of web technology.
  
2. Attempt any **four** parts of the following : (5×4=20)
  - (a) Explain the Static, Dynamic and Active Web Pages.
  - (b) Explain the HTML tags for FRAME and FORM with the help of suitable example.
  - (c) Explain the role of SAX and DOM in XML document verification.
  - (d) 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.

(e) What is the basic need of client side scripting language ?  
How do you perform the client side validation using Java Script ?

(f) How is DHTML different from HTML ?

3. Attempt any **two** parts of the following : **(10×2=20)**

(a) What are Servlets ? How are servlets created and run ?

(b) What is a Java Bean ? Differentiate Java Bean and EJB. Write down a Java Bean for calculator keypad.

(c) Write short note on the JSDK.

4. Attempt any **two** parts of the following : **(10×2=20)**

(a) What is the functionality of JSP ? What are the advantages of JSP over various server side programming techniques ? Also explain the various components of JSP in detail.

(b) How does JSP handle runtime exceptions ? Also explain, how do you enable and disable sessions, using JSP.

(c) Write short notes on the following :

(i) TOMCAT Servers

(ii) Error Handling and debugging.

5. Describe any **two** of the following with suitable example :

**(10×2=20)**

(a) Struts Framework

(b) Java Swing and JAR file

(c) Database programming using JDBC.

09/01/11 (E)