

(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)**
- What do you mean by Protocol ? Name three protocols that govern the web and explain them.
  - Why are the cyber laws required ? Write a short note on Indian Cyber Law.
  - Discuss the working of SMTP and POP servers in brief.
  - What are the essential skills that must be identified while selecting the members of a web project team ?
  - Briefly discuss the main steps involved in the content planning process.
  - 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)**
- Explain the Static, Dynamic and Active Web Pages.
  - Explain the HTML tags for FRAME and FORM with the help of suitable example.
  - Explain the role of SAX and DOM in XML document verification.
  - 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.