

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

**PAPER ID : 0100**

Roll No.

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|

## 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.

2. What is the basic need of client side scripting language ?  
How do you perform the client side validation using Java Script ?

3. How is DHTML different from HTML ?

4. 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.

5. 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.

6. 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.