



Printed Pages : 3

TCS-701/TIT-503

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

PAPER ID : 0100-1309

Roll No.

B. Tech.

(SEM. VII / V) EXAMINATION, 2007-08 INTRODUCTION TO WEB TECHNOLOGY

Time : 3 Hours]

[Total Marks : 100

- Note :
- (1) Attempt all questions.
 - (2) All questions carry equal marks.
 - (3) Assume data, wherever not provided.

- 1 Attempt any **four** parts of the following : **5×4=20**
- (a) Discuss the most basic elements of good site design, including navigation considerations.
 - (b) What do you mean by cyber crime ? How can the cyber crimes be checked ?
 - (c) What are the essential skills that must be identified while selecting the members of a web project team ?
 - (d) Explain the following terms :
 - COM/DCOM
 - RMI
 - WML
 - ASP
 - (e) What are the technologies used in web design ? What is the role of plug-in and cookies ? Explain.
 - (f) Why planning is must before developing a website ? What are advantages of early planning ?

2 Attempt any **four** parts of the following : **5×4=20**

- (a) Write an XML document to store the details of Employees. Also design a web page to get the input of Employee id and retrieve the full details from the XML document.
- (b) What makes a website a dynamic site ? Which languages and constructs are used in developing dynamic site ?
- (c) Differentiate the following pairs :
 - Java and Java Script
 - Forms and Frames
- (d) Explain the role of SAX and DOM in XML document verification.
- (e) What do you mean by an event ? How event handling is done in Java Script ? Explain with suitable examples.
- (f) Write a Java Script function int find Sum Square (f), to find the sum of the squares of the first n integers. The number n is the value of an element called number in the form f.

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

- (a) What is an Applet ? How does it differ with Java applications ? Write down steps to develop an Applet and to use it in a web page.
- (b) What strategies are used to protect the server of a dynamic site ? Explain.
- (c) What is a Java Bean ? Differentiate Java Bean and EJB. Write down a Java Bean for calculator keypad.

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

- (a) Write down in brief functions of JSP. Discuss various tags used in JSP.
- (b) How exception handling is done in Java ? Explain with suitable examples.
- (c) What is the importance of web-servers ? Explain the basic steps required for processing a JSP request by a web browser.

5 Attempt any **two** parts of the following : **10×2=20**

- (a) What do you mean by JDBC driver in Java ? Explain web database. How do you manage a database through web ?
- (b) In reference to JDBC, explain the following :
 - java.sql package
 - database connectivity.
- (c) Design an automated entry of a user profile through a form using JSP Struts Framework.