

Printed Pages—3

TIT—503

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

PAPER ID : 1309

Roll No.

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B.Tech.

FIFTH SEMESTER EXAMINATION, 2006-07

INTRODUCTION TO WEB TECHNOLOGY*Time : 3 Hours**Total Marks : 100***Note :** (i) *Attempt ALL questions.*(ii) *All questions carry equal marks.*(iii) *Be precise in your answer.***1. Attempt any four parts of the following : (5x4=20)**

(a) What do you mean by web technologies ? Write down the various steps to develop a multi-departmental website.

(b) Describe various protocols governing the web applications.

(c) What can be the stages and strategies required in order to develop a web project ?

(d) Explain the following terms :

- Firewalls
- Frames
- JVM (Java Virtual Machines)
- Byte Codes

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- (e) What are the various security threats on the web ? How are they encountered ?
- (f) Write down about cyber laws in India.
2. Attempt *any four* parts of the following : (5x4=20)
- (a) Discuss the design of the railway reservation application using XML, HTML, Java Script and ASP in brief.
- (b) Differentiate between the following pairs :
- HTML and XML
 - Constructors and finalizers
- (c) What do you mean by function overloading ? Explain with examples.
- (d) Describe various types of Document Type Definition (DTD) in XML. Which types of DTD is more preferable and why ?
- (e) What are the various ways to create forms ? Explain with examples.
- (f) Write a JavaScript function `int findsum (f)` to find the sum of the first `n` prime integers. The number `n` is the value of an element called number in the form of `f`.
3. Attempt *any two* parts of the following : (10x2=20)
- (a) What is a thread ? How a thread is created ? Differentiate between process based multitasking and thread based multitasking.
- (b) What is ESB ? How does it differ with Java Beans ? Write down steps to design Java Bean and Servlet API.
- (c) What are Servlets ? Write down the major services and advantages of servlets.

4. Attempt *any two* parts of the following : (10x2=20)
- (a) What do you mean by JSP ? Explain the architecture of the JSP.
 - (b) Explain the use of Request and Response objects in the communication between the browser and the web server in JSP.
 - (c) How error handling and debugging are done in Java ? Explain with suitable examples.
5. Attempt *any two* parts of the following : (10x2=20)
- (a) What are the important issues to be considered in designing a database that is to be accessed through a web page ? Explain.
 - (b) Design and write a program "Hello World!" using JSP Struts Framework.
 - (c) In context to JDBC, explain the following terms :
 - JDBC connectivity drivers
 - Data sources
 - SQL statements

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