

Printed Pages : 2

EIT-401

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

PAPER ID : 0113

Roll No.

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B.Tech.**(SEMESTER-IV) THEORY EXAMINATION, 2011-12****WEB TECHNOLOGY****Time : 3 Hours]****[Total Marks : 100****Note :** Attempt **all** Sections.**Section – A**

1. Attempt **all** parts of this Question. **10 × 2 = 20**
- (a) Differentiate between Web browser and Web server.
 - (b) What are Cookies ?
 - (c) Discuss how frames play a big role in advertising on web.
 - (d) What is meant by a hyperlink ? How it is used with image ?
 - (e) How run time polymorphism is achieved in Java ?
 - (f) How do we manage a database through web ?
 - (g) Is COM same as DCOM ? Comment on it.
 - (h) Explain the term Document Type Definition (DTD) with the help of suitable examples.
 - (i) Briefly discuss the main steps involved in the Creative and Content Planning process.
 - (j) Define Quality Assurance and discuss its role.

Section – B

2. Attempt any **three** parts of this Section : **3 × 10 = 30**
- (a) What are the various characteristics of a web team ? What do you mean by Target Users ?
 - (b) Make a difference table for Static Web Page, Dynamic Web Page and Active Web Pages.
 - (c) What is EJB ? Differentiate Java Bean and EJB.
 - (d) What is a stream ? How is the concept of streams used in Java ? What are input and output streams ?
 - (e) Explain the Struts framework with the help of suitable examples.

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Section – C

Attempt **all** questions of this Section.

5 × 10 = 50

3. Attempt any **two** parts of the following :
- What are protocols ? Describe the various layers with functions and protocol in TCP/IP and OSI. Differentiate between OSI model and TCP/IP.
 - Discuss the various Web Project Developments Phases in detail.
 - Explain the working of following with Architecture, Functions, Advantages and Disadvantages –
 - Router
 - Gateways
4. Attempt any **one** part of the following :
- What is XML ? Create an XML document of 10 students of first Year. Add their roll numbers, marks obtained in 5 subjects, total marks and percentage. Save this XML document at the server, write a program that accepts student's roll number as input and returns the students marks, total and percentage by taking the student's information for the XML document.
 - 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.
5. Attempt any **two** parts of the following :
- What is a java bean and what are the advantages of java beans ? Why is it necessary to understand JAR files before developing a bean ? Also explain the various commands for the same.
 - Explain the various Security Issues for Web Servers.
 - What is Java Servlet and Java Server Page ? Explain the life cycle of Servlet. Name the method of Servlet Request Class.
6. Attempt any **one** part of the following :
- What is JSP ? What are the advantages of JSP over CGI ? JSP provide better performance, prove this statement. How can we enable and disable session in JSP ?
 - Write short notes on the following :
 - Tomcat Server
 - Error Handling and Debugging
7. Describe any **two** parts of the following :
- Accessing a Database from a JSP page.
 - Developing Java Beans in a JSP page.
 - Application Specific Database Action