04)

Printed Pages: 3

EIT-401

(Following Paper ID and Roll No. to be filled in your Answer Book)	
PAPER ID: 0113	Roll No.

B.Tech. (SEMESTER-IV) THEORY EXAMINATION, 2012-13

WEB TECHNOLOGY

Time: 3 Hours]

[Total Marks: 100

SECTION - A

1. Attempt all parts.

 $10 \times 2 = 20$

- (a) What is a Web Portal? Write name of two public web portal.
- (b) Differentiate between TCP and UDP.
- (c) Which browsers support DHTML and how will non-supporting browsers handle DHTML?
- (d) What is the difference between undefined and null in Java Script?
- (e) Briefly describe Bean Development Kit (BDK).
- (f) What is the difference between Servlet Context and Servlet Config?
- (g) What is Jasper?
- (h) What are implicit objects in JSP?
- (i) Is it possible to connect to multiple databases simultaneously? If yes, then on what factor it depends upon.
- (j) What configuration files are used in Struts?

SECTION - B

2. Attempt any three parts:

 $3 \times 10 = 30$

(a) How a Web project differs from a traditional software projects? One should not overlook two key issues while developing a web-site: hosting and content management. Explain how these two terms are important for building an effective Web strategy.



- (b) Write a script using Java Script that checks the given input for a valid name, password length more than 6 characters and age field in the range of 1 to 99. Also write the appropriate HTML code to implement this script.
- (c) Describe the steps to implement a stateless session bean in detail.
- (d) Explain the inbuilt objects of JSP. What is the difference between <jsp:include page=...> and <%@ include file=...>?
- (e) How many different kinds of JDBC drivers are available? Explain each in brief.

SECTION - C

Attempt all parts:

 $5\times10=50$

- 3. Attempt any two parts:
 - (a) List the key responsibilities of a developer and a designer in a Web team.
 - (b) What is a digital certificate? Who issues this certificate and what is the purpose of digital certificate?
 - (c) What is copyright infringement? How is it taking place?
- 4. Attempt any **two** parts:
 - (a) Write a Java Script function to validate user name.
 - (b) What role do forms play in making a web page dynamic?
 - (c) How is XML defined? Write down the XML syntax and structure rules.
- 5. Attempt any two parts:
 - (a) How many different types of EJB components are available? Explain.
 - (b) Explain the lifecycle of Servlet.
 - (c) How generic servlet is different from HttpServlet? Write a program to create a servlet using HttpServlet class that displays first 100 prime numbers.
- 6. Attempt any **two** parts:
 - (a) Explain the following in the context of JSP:
 - (i) Request and response objects.
 - (ii) Cookies and their use.

- (b) How can we implement a thread-safe JSP page? What are the advantages and disadvantages of using it?
- (c) What is the difference between a Web-server and an Application-server? Is Apache Tomcat an application server? Explain your answer.

7. Attempt any two parts:

- (a) What is the advantage of using Entity bean for database operations over directly using JDBC API to do database operations? When one should be used over the other?
- (b) Describe the various steps involved in establishing a JDBC connection. Use a suitable example to demonstrate.
- (c) What is Struts? Using an example demonstrates the use of Struts for a simple web application using HTML forms.