Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
SEMESTER– 4 EXAMINATION – WINTER 2012

Subject code: 640002   **Date: 08/01/2013**
Subject Name: Web Technology & Application Development (WT & AD)
Time:10:30 – 13:00   **Total Marks: 70**
Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1 **(a)** i. In HTML, <ol> tag is used to create list items with   **07**
bullets. (True / False)
ii. We must configure and map all jsp files into web.xml.
(True / False)
iii. Write the JSP comment syntax.
iv. In Javascript, eval("2 + 0.56") returns _____.
v. In servlet, _____ method is used with session object to
store information in a session.
vi. ResultSet.getMetaData() returns the object of ____ .
    a. DatabaseMetaData
    b. MetaData
    c. ResultSetMetaData
    d. None of the above
vii. Give the two required attributes of jsp:getProperty
action tag.

(b) What do you mean by Cookies? Mention the benefits of   **07**
Cookies. How will you set and get cookies in servlet,
explain with example.

Q.2 **(a)** i) Explain the Servlet Life Cycle.   **03**
ii) Write a Servlet program which generates a plain text.   **04**
(b) Briefly discuss the following HTTP 1.1 request headers   **07**
i) Accept   ii) Accept-Charset iii) Host
iv) Accept-Language v) Authorization   vi) Cookie
vii) User-Agent
<div align="center">**OR**</div>
(b) Explain the following methods of HttpServletResponse   **07**
with examples.
i) setContentType() ii) setStatus()   iii) sendError()
iv) sendRedirect()   v) setContentLength()
vi) encodeURL()   vii) isCommited()

Q.3 **(a)** Write the advantages of JavaScript. Explain any three   **07**
methods of Date and String objects of JavaScript.
(b) i) Explain JSP expressions, scriptlets and declarations with   **03**
example.
ii) Explain JSP page directive's import, session, buffer and   **04**
errorPage attributes with example.
<div align="center">**OR**</div>
Q.3 **(a)** i) Explain c:out and c:choose JSTL tags with its required   **03**
attributes giving example.
ii) State the difference between jsp:include and the include   **04**

directive.

(b) Explain the mechanism of accessing Bean Properties and accessing Collections using JSP Expression Language with example. **07**

Q.4 **(a)** What are Beans? Explain the required steps for implementing MVC with RequestDispatcher with example code. **07**

(b) Explain the process for querying databases using JDBC Driver. **07**

OR

Q.4 **(a)** What is ServletContextListener? Explain the process of initialization of Commonly used data by ServletContextListener interface. **07**

Q.4 **(b)** List the Tag Library Components? Explain each of them in brief to create the custom JSP Tags **07**

Q.5 **(a)** How do you implement BASIC authentication, Explain in brief. Write the advantages of BASIC authentication. **07**

(b) What is Struts? Explain Struts flow of control with diagram. **07**

OR

Q.5 **(a)** Explain at-least seven new features of Servlet 3.0 specification. **07**

(b) Discuss the steps for using the Struts Properties files to develop Web Application using Struts. Write the advantages of Struts Properties file. **07**

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