

GUJARAT TECHNOLOGICAL UNIVERSITYMCA Sem-4th Regular Examination May 2011**Subject code: 640002****Subject Name: Web Technology & Application Development****Date: 19/05/2011****Time: 02:30 P.M. - 05:00 P.M.****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)** Answer the following. **07**
- i. What is the code in HTML so that someone can mail by just clicking on text?
 - ii. Write a code for create a multiple list in HTML.
 - iii. Which two methods are used for takes keyboard input and screen output in Java Script?
 - iv. What is the correct JavaScript syntax to write "Hello World"?
 - v. What gets printed when $\${12 \% 4}$ expression is evaluated in JSTL?
 - vi. Which interface must be implemented by all Servlets?
 - vii. What will Class.forName do while loading drivers?
- (b)** Answer the following.
- i. What are the major differences between doGet() and doPost()? **02**
 - ii. What is difference between DynaActionform and Actionform? **02**
 - iii. Write a code in JDBC where a maximum limit of database connections has been reached? **02**
 - iv. What types of comments are available in the JSP? **01**
- Q.2 (a)** Define/explain following terms: **07**
- | | |
|--------------------------------|------------------------|
| i. Scriptlets | ii. Bean Properties |
| iii. c:set in JSTL | iv. ServletResponse |
| v. Database Transactions | vi. Java Script Arrays |
| vii. Descriptor (web.xml) file | |
- (b)**
- i. What is the difference between `<jsp:forward page = ... >` and `response.sendRedirect(url)?` **03**
 - ii. What is the difference between HttpServlet and GenericServlet? **04**
- OR**
- (b)**
- i. What is the difference between `<jsp:include page = ... >` and `<%@ include file = ... >?` **03**
 - ii. Explain the advantages of JSP over Servlet. **04**
- Q.3 (a)** Define Servlet. Explain the life cycle methods of Servlet. **07**
- (b)** What do you understand by JSP Actions? **07**
- OR**
- Q.3 (a)** What is HttpServlet? Explain the methods of HttpServlet. **07**
- (b)** What are implicit Objects available to the JSP Page? **07**
- Q.4 (a)** Define Session Tracking. What is the use of Session Tracking in the web? **07**
Explain with suitable example.

(b) What is the use of PreparedStatement in JDBC? List out various methods of PreparedStatement and explain with suitable example. **07**

OR

Q.4 (a) Define Cookies. How will you handle cookies in Servlet? Explain with suitable example. **07**

(b) What is the use of ResultSet in JDBC? Write a code in JDBC for view list of records from a table. How does one get column names for rows returned in a ResultSet? **07**

Q.5 (a) Explain flow of execution through Struts Framework. **07**

(b) How will you create validations in Struts? What are struts validation components? **07**

OR

Q.5 (a) What is Struts? How is the MVC design pattern used in Struts framework? **07**

(b) What is ActionForm in the struts? What are parameters used in Action.execute() method? **07**
