

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER-IV • EXAMINATION – SUMMER • 2014**

**Subject Code: 640002**

**Date: 27-05-2014**

**Subject Name: Web Technology and Application Development**

**Time: 10:30 am - 01:00 pm**

**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 Bean?
  - ii. web.xml file is case sensitive. Justify?
  - iii. The <select> tag allows multiple choice selection from list of choices that are offered. (True/False)
  - iv. The Date object contains information about a particular date and time. (True/False)
  - v. State a limitation of session tacking with Hidden form fields.
  - vi. What is the default Maximum age of Cookie object?
  - vii. The index of first column in ResultSet is \_\_\_\_\_.
- (b) Answer the following.
- i. Explain the meaning of any two HTTP Request Headers. **02**
  - ii. Compare doGet() and doPost() method of servlet. **02**
  - iii. Write short note on HTTP 1.1 status codes. **03**
- Q.2** (a) Answer the following.
- i. Compare JSP and Servlet. **03**
  - ii. Explain the methods used for managing transaction in JDBC API along with an appropriate example. **04**
- (b) Explain DOM hierarchy. List two important methods of Window and Document Object. **07**
- OR
- (b) What is special about Math object? Explain any two methods of String, Date and Array object. **07**
- Q.3** (a) i. Write code snippet to add a cookie named “username” with value “MCASEMIV” and retrieving it. **03**
- ii. Explain life cycle of Servlet. **04**
- (b) i. Explain the attributes of <action> element in struts-config.xml. **03**
- ii. Compare include action and include directive. **04**
- OR
- Q.3** (a) i. Write code snippet to create a session object and storing the username value in it and retrieving the same. **03**
- ii. What is java script? Differentiate between client side script and server side script. **04**

- (b) i. Compare and contrast page, pageContext and config predefined variables in JSP. **03**
- ii. Explain various data sharing scopes between servlets and JSP **04**
- Q.4** (a) Explain advantages and disadvantages of struts framework as compared to MVC using RequestDispatcher. **07**
- (b) i. Explain isErrorPage and errorPage attributes of page directive with an example. **03**
- ii. Compare executeQuery() and executeUpdate methods of Statement Object. **04**

OR

- Q.4** (a) Explain MVC architecture with an appropriate example and diagram. **07**
- (b) i. Compare sendRedirect() method of HttpServletResponse with forward() method of RequestDispatcher. **03**
- ii. Compare Statement object and PreparedStatement Object. **04**
- Q.5** (a) Explain the steps for creating basic filters. **07**
- (b) State the advantages of declarative security over programmatic security. Compare form based Authentication and Basic Authentication. **07**

OR

- Q.5** (a) Explain c:forEach, c:import and c:url with all the attributes. **07**
- (b) What is the purpose of '.tld' file? Explain the basic structure of tld file for creating custom tags with attributes. **07**

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