

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER- IV • EXAMINATION – WINTER 2015

Subject Code: 640002

Date: 02/12/2015

Subject Name: Web Technology & Application Development (WTAD)

Time: 10.30 a.m. To 01.00 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. The <select> tag allows multiple choice selection from list of choices that are offered. (True/False)
 - ii. The Date object contains information about a particular date and time. (True/False)
 - iii. State a limitation of session tacking with hidden form fields.
 - iv. What is the default Maximum age of Cookie object?
 - v. The index of first column in ResultSet is _____.
 - vi. What is Bean?
 - vii. web.xml file is case sensitive. Justify?
- (b) Answer the following.
- i. Explain the meaning of any two HTTP Request Headers. **02**
 - ii. Compare get and post method of <form> tag. **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 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 architecture 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 a diagram. 07
(b) i. How sendRedirect() method of HttpServletResponse differ with forward() method of RequestDispatcher. 03
ii. Compare Statement and PreparedStatement. 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 its attributes. 07
(b) What is the purpose of '.tld' file? Explain the basic structure of '.tld' file for creating custom tags with attributes. 07
