

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER– IV • EXAMINATION – WINTER 2016**

**Subject Code: 640002**

**Date: 21/10/ 2016**

**Subject Name: Web Technology & Application Development (WT&AD)**

**Time: 10.30 AM TO 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. JavaScript is created by \_\_\_\_\_. (Sun, Microsoft, Netscape)
  - ii. \_\_\_\_\_ is only property of string object in JavaScript.
  - iii. CGI means \_\_\_\_\_.
  - iv. We must configure and map all jsp files into web.xml. (True / False)
  - v. Which interface must be implemented by all Servlets?
  - vi. web.xml file is case sensitive. Justify?
  - vii. Give the difference between GenericServlet and HttpServlet.
- (b) What is cookie? How cookies are sent and received by servlet? Explain with example. **07**
- Q.2** (a) Explain Servlet Life cycle with example. **07**
- (b) Explain jsp:include and include directive. **07**
- OR**
- (b) What is JSP directive? Explain page directive with attributes. **07**
- Q.3** (a) Explain JSP scriptlets, expression and declaration with example. **07**
- (b) Write down the required steps for implementing MVC with RequestDispatcher with example. **07**
- OR**
- Q.3** (a) Write down steps required by the servlet to generate JPEG images. **07**
- (b) Explain the three main constructs for build and manipulate JavaBean components in JSP pages. **07**
- Q.4** (a) Explain CallableStatement with example. **07**
- (b) Write down the steps for connecting and querying database with java applications with example. **07**
- OR**
- Q.4** (a) Explain Prepared Statement with example. **07**
- (b) What is session Tracking? Explain methods of session tracking API with example. **07**
- Q.5** (a) What is JSTL? Explain c:forEach and c:forEachTokens Tag with example. **07**
- (b) Define Expression Language. Discuss its implicit objects. **07**
- OR**
- Q.5** (a) List and explain Tag Library Components to create custom tags? **07**
- (b) Explain the structure of web.xml with sample data. **07**

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