

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA SEM-IV Examination- Dec.-2011

Subject code: 640002

Date: 15/12/2011

Subject Name: Web Technology & Application Development (WTAD)

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) Do as Directed. 07**
- (1) JavaScript is created by _____. (Sun, Microsoft, Netscape)
 - (2) What are the four possible values of scope attribute in `jsp:useBean`?
 - (3) What will be assign in variable `mca` by following JavaScript
`var mca = parseInt("0xff");`
 - (4) `getColumnCount` is method of _____ class.
 - (5) JavaScript is compiled and executed at client. (True / False)
 - (6) _____ is only property of string object in JavaScript.
 - (7) Asynchronous Request Processing is new feature added in Servlet Specification 3.0. (True/False)
- (b) Give the DOM hierarchy. Explain properties, methods and events for the text elements of HTML forms. 07**
- Q.2 (a) What is JavaScript? What are the advantages of JavaScript? 07**
- (b) Explain the servlet life cycle in detail. 07**
- OR**
- (b) Discuss all access methods of `HttpServletRequest` in detail. 07**
- Q.3 (a) Describe important status codes for HTTP 1.1 protocol. 07**
- (b) Why Cookies used? Explain how Cookies are send and received by the servlet. 07**
- OR**
- Q.3 (a) List out the different techniques used to track the session. Explain methods available in `HttpSession` class. 07**
- (b) Give the names of JSP directives. Briefly explain all attributes of JSP page directives. 07**
- Q.4 (a) What is the importance of JavaBeans in JSP? Explain important JSP actions to build and manipulate JavaBean component along with all its attributes. 07**
- (b) Give the standard steps for connecting and querying database with java applications. Also discuss the important methods of `Statement` class. 07**
- OR**
- Q.4 (a) Why MVC framework is required to build complex applications? Briefly explain the role of `RequestDispatcher` in MVC. 07**
- (b) What do you understand by database transactions? How the transaction is carried out using JDBC API? Explain with example. 07**

- Q.5 (a)** What is difference between declarative security and programmatic security? Describe the steps involved in form-based security. **07**
- (b)** Explain Tag Library Components in detail. **07**
- OR**
- Q.5 (a)** Explain following seven tags of JSTL with its all attributes. **07**
(1) c:out (2) c:forEach (3) c:forTokens (4) c:if (5) c:choose
(6) c:redirect (7) c:catch.
- (b)** Draw the diagram to explain the flow of control for Struts and discuss steps for its implementation. **07**
