Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.C.A -IVth SEMESTER–EXAMINATION – MAY- 2012

Subject code: 640002   **Date: 16/05/2012**
Subject Name: Web Technology & Application Development (WT & AD)
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 followings.
     1. Java is _____and JavaScript is _____.   02
     2. True or False. JavaScript Ignores White Space.   01
     3. How <%! ---- %> declaration in JSP can be written in XML Syntax.   01
     4. What kind of information 400-499 status code provides?   01
     5. What is the use of <load-on-startup> element of web.xml?   01
     6. Describe the role of DriverManager in JDBC.   01

   (b)   Answer the followings.
     1. Describe the use of Annotation.   02
     2. Explain the Date object of javascript with any two methods.   02
     3. What is ActionServlet?   01
     4. The method getWriter returns an object of type PrintWriter. This class has   01
        println methods to generate output. Which of these classes define the
        getWriter method? Select the correct answer.
        A. HttpServletRequest   B. HttpServletResponse
        C. ServletConfig   D. ServletContext
     5. As a programmer state the weaknesses of servlet.   01

Q.2 (a)   Answer the followings.
     1. Provide difference between GenericServlet and HttpServlet.   02
     2. Explain DatabaseMetaData.   02
     3. Describe the usage of PreparedStatement and CallableStatement in JDBC.   02
     4. State the use of <form action="j_security_check" method="post">.   01

   (b)   Define servlet. Discuss servlet life cycle with example.   07

<p align="center">OR</p>

   (b)   Differentiate <jsp:include> from <jsp:forward> with example.   07

Q.3 (a)   Write a code to read a HttpHeader in servlet.   07
   (b)   1. Write a short note on RequestDispatcher.   04
     2. Explain Javascript function with example.   03

<p align="center">OR</p>

Q.3 (a)   Define Servlet Filter with proper code.   07
   (b)   1. What is Session? Explain different ways of session tracking mechanism.   04
     2. Discuss javascript events with proper example.   03

Q.4 (a)   1. Differentiate Servlet from Java Server Pages.   03
     2. Define JSP Directive. Discuss any five attribute of page directive.   04
   (b)   Discuss Deployment Descriptor with its element and role.   07

<p align="center">OR</p>

Q.4 (a) 1. Define Custom Tag. Provide difference between TagSupport and   03
            BodyTagSupport.
         2. What is JSP predefined variables? Explain any five.   04
     (b) Explain <jsp:usebean> <jsp:setProperty> and <jsp:getProperty> with suitable   07
         example.
Q.5 (a) Define Expression Language. Discuss its implicit objects.   07
     (b) 1. Explain in detail struts-config.xml file.   04
         2. State the role of MVC architecture in Web based application environment.   03
                                      OR
Q.5 (a) Define JSTL. State types of JSTL and discuss c:forTokens, c:redirect, c:catch,   07
         c:import and c:param.
     (b) 1. Write a short note on Asynchronous request processing and   04
            Internationalization.
         2. State advantages and disadvantages of Struts.   03
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