

**GUJARAT TECHNOLOGICAL UNIVERSITY****ME Semester –I Examination Feb. - 2012****Subject code: 712302N****Date: 13/02/2012****Subject Name: Advance Web Technology****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.
4. Use Standard conventions from book.

<b>Q.1</b>		Attempt any two	<b>14</b>
<b>Q.1</b>	(a)	Explain the J2EE architecture along with Containers and their role. Show various J2EE API's and framework available in it.	
	(b)	Write a JavaScript code to verify email address and mobile number of a user. Take input using HTML form and display appropriate alert after verify.	
	(c)	Explain different types of CSS with example code. Also show in what order they will be applied to the HTML elements.	
<b>Q.2</b>	(a)	What is XMLHttpRequest object? Explain how it can be used to send AJAX request with example code.	<b>07</b>
	(b)	What are the JSP directives? Explain various directives with their attributes using example code.	<b>07</b>
		<b>OR</b>	
	(b)	What is Difference between ServletConfig Object & ServletContext? How ServletContext Object & HttpServletRequest Object are used to forward request to other JSP or Servlet.	<b>07</b>
<b>Q.3</b>	(a)	What are the differences between Request parameter and Request attributes. Show how to share a request attribute between two JSPs using example code.	<b>07</b>
	(b)	Explain lifecycle of a Servlet.	<b>07</b>
		<b>OR</b>	
<b>Q.3</b>	(a)	Explain lifecycle of a JSP page.	<b>07</b>
	(b)	What are the JSP implicit objects? Explain various implicit objects with their scope and usage.	<b>07</b>
<b>Q.4</b>	(a)	What are the differences between TagSupport and BodyTagSupport class? Give an example of both and use the tag in JSP.	<b>07</b>
	(b)	Explain the JSF elements & JSF architecture and also show the life Cycle of JSF request processing.	<b>07</b>
		<b>OR</b>	
<b>Q.4</b>	(a)	Explain different types of Servlet Events. Develop an event listener class which prints session variable name and value whenever any variable is added or removed from the session.	<b>07</b>
	(b)	How a java object can be mapped to a table in the relational database. Show it using the Student object example.	<b>07</b>

<b>Q.5</b>	<b>(a)</b>	Explain the three ways of including a JSP in another JSP with example code. Also explain the differences between them.	<b>07</b>
	<b>(b)</b>	Explain various tags in SQL tag library. Give an example of loading database table data in a HTML table.	<b>07</b>
		<b>OR</b>	
<b>Q.5</b>	<b>(a)</b>	Explain various tags in XML tag library. Give an example of parsing and displaying an xml file.	<b>07</b>
	<b>(b)</b>	What is the JSP Expression Language? Give Sample examples of JSP-EL with correct syntax in JSP page	<b>07</b>

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