Seat No.: _____   Enrolment No._____

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

Subject Code: 2640002   **Date: 13-05-2015**
Subject Name: Web Technology and Application Development
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)**	i.	getColumnNo() is a method which returns number of columns in the ResultSet. (True / False)	**07**
		ii.	getCharCodeAt(3) for the string "Gujarat" returns 106. (True / False).	
		iii.	500-599 HTTP error codes represents Redirection. (True / False).	
		iv.	A method executeUpdate() returns an object of ResultSet. (True / False).	
		v.	response.setHeader("Refresh","7") will refresh page after every 7 minutes. (True / False).	
		vi.	If you press OK in confirm dialog box in JavaScript it returns 0. (True / False)	
		vii.	<%@ include file= …> and <jsp:include page=""> are the same. (True / False).	
	(b)	Explain Servlet life cycle with sample code which prints "Hello World".		**07**

Q.2	**(a)**	Explain any five methods of Math Object with example. Also write a JavaScript code to generate random number between 0 to 9.	**07**
	(b)	Briefly discuss any five HttpServletRequest methods with example.	**07**
		OR	
	(b)	Briefly discuss any five HttpServletResponse methods with example.	**07**

Q.3	**(a)**	What is Cookie? How we can manage cookies for session management? Explain with example.	**07**
	(b)	Explain declarative security and programmatic security.	**07**
		OR	
Q.3	**(a)**	How HttpSession is helpful to us for managing session? Explain with example.	**07**
	(b)	What is MVC? Explain in briefly required step for implementing MVC.	**07**

Q.4	**(a)**	What is JSP directive? Explain page directive with attributes.	**07**
	(b)	What is Callable Statement? Describe advantages and disadvantages of it.	**07**
		OR	
Q.4	**(a)**	Explain in detail: the implicit objects available to JSP.	**07**
	(b)	What is Prepared Statement? Explain the usage of it with sample code.	**07**

Q.5	**(a)**	What is JSTL? Explain with example: c:ForTokens, c:redirects, c:catch, c:import, and c:param	**07**
	(b)	Explain how we can use JavaBeans in JSP page.	**07**
		OR	
Q.5	**(a)**	What is Expression Language (EL)? Also explain its implicit objects.	**07**
	(b)	What is Filters? What is the use of it explain with example.	**07**

****