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GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER – IV • EXAMINATION – WINTER - 2017

	•	Code: 640002 Date: 30-12-201 Name: Web Technology & Application Development	.7
Ti	me: 2 truction 1.	2:30 pm – 5:00 pm Total Marks:	70
Q.1	(a) (b)	Do as directed: 1. The JSTL expression \${24 % 3} evaluates to be 2. The topmost object in DOM hierarchy is 3. HttpServletRequest is a/an (class/interface) 4. JavaScript is a 5. The role of DriverManager in JDBC is 6. getCookies() method returns 7. PreparedStatement is used for executing (stored procedures/pre-compiled SQL statements) What is a servlet? Explain the servlet life cycle with suitable diagram.	07
Q.2	(a) (b)	What do you mean by HTTP status code? Explain all the status codes. Explain any 5 methods of HttpServletRequest. OR	07 07
	(b)	Explain any 5 methods of HttpServletResponse.	07
Q.3	(a) (b)	List all implicit objects of JSP and explain any 5 with suitable example. What is a Cookie? Explain how it is used for session management with suitable example.	
Q.3	(a) (b)	OR Discuss JSTL. Explain any 5 JSTL tags with suitable example. What do you mean by JSP directive? Explain all the directives with one example each.	07 07
Q.4	(a) (b)	Discuss Servlet/JSP filter with suitable example. Explain JSP EL with suitable example. OR	07 07
Q.4	(a) (b)	Differentiate between (any 3): 1. jsp:include & jsp:forward 2. doGet() & doPost() 3. Callable Statement & Prepared Statement 4. Declarative Security & Programmatic Security 5. jsp:setProperty & jsp:getProperty Discuss MVC. Explain the types of file required and the folder structure. Give suitable example using request dispatcher.	07
Q.5	(a)	Create a bean called student_bean. The attributes are roll, name & contact number. Implement the same for storing and retrieving the information.	07
	(b)	Discuss tag library descriptor. Create a custom tag for performing substring operation.	07

Q.5	(a)	Create a HTML form for inputting the following details:	
		Employee ID, Employee Name and Salary.	
		Now write a servlet code to insert and display information using JDBC.	
	(b)	Discuss web descriptor file. Explain any 5 tags with suitable example.	07
