

**GUJARAT TECHNOLOGICAL UNIVERSITY****MCA - SEMESTER-IV • EXAMINATION – WINTER • 2014****Subject Code: 2640002****Date: 29-11-2014****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) Explain Following HTML Tag with example: (i) Title, Head (ii) OL, UL (iii) Table with TH,TR,TD **07**
- (b) Write a java script to check whether a number entered in textbox is prime or not. **07**
- Q.2** (a) Explain Lifecycle of Servlet with available functions. **07**
- (b) What is HTTP Status Code? Explain all HTTP Status codes **07**
- OR**
- (b) What is JDBC? Explain JDBC Driver Types. **07**
- Q.3** (a) Write a Servlet to select employee personal information from database using JDBC on basis of employee code entered by user in html page. **07**
- (b) What is Session and Cookie? How they are used in JSP Page? Explain with each one with separate example. **07**
- OR**
- Q.3** (a) What is JSTL? Explain c:forEach, c:forTokens, c:if ,c:choose Tag with example **07**
- (b) What is Filter in Servlet/JSP? Explain with one example. Also write steps to implement Filter. Also mention appropriate xml file. **07**
- Q.4** (a) Explain various standard Action Tags in JSP with sample code. **07**
- (b) Write JSP code to store student personal information in database using Callable statement. **07**
- OR**
- Q.4** (a) State the difference between (i) jsp:include and the include directive (ii) jsp:forward() and sendRedirect() **07**
- (b) Write JSP code to store item information in database using Prepared statement. **07**
- Q.5** (a) Explain JSP implicit objects. **07**
- (b) Write java bean to store and retrieve students name, age, mobile no and use it in jsp page using java beans property **07**
- OR**
- Q.5** (a) What is JSP EL? Explain with example. **07**
- (b) Write sample code to handle shopping cart data using session and generate order using JSP. **07**

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