

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER- IV • EXAMINATION – WINTER 2015**

**Subject Code: 2640002****Date:02/12/2015****Subject Name: Web Technology & Application Development (WTAD)****Time:10.30 a.m. To 01.00 p. m.****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)** Attempt the following: **07**
- 1 Which event fires when the form elements : <button>,<textarea> loses the focus in javascript?
  - 2 Which three methods are used to generate filters?
  - 3 How array can be declared in javascript?
  - 4 \_\_\_\_\_ interface indicates that the servlet is thread safe.
  - 5 \_\_\_\_\_ method takes a parameter name as a parameter and returns the value of the named parameter as a String.
  - 6 Arbitrary status code can be set with the \_\_\_\_\_ method.
  - 7 Write syntax for expression Language.
- (b)** Attempt the following:
- 1 Differentiate request forward and request redirect. **03**
  - 2 Write difference between jsp:include action tag and include directive. **04**
- Q.2 (a)** Explain Servlet life cycle with example. **07**
- (b)** List and explain steps to generate jpeg image in servlet with example. **07**
- OR**
- (b)** What is cookie? Explain how Cookies are send and received by the servlet. **07**
- Q.3 (a)** Explain sendRedirect() and sendError() with suitable example. **07**
- (b)** Give the DOM hierarchy. Explain properties, methods and events for the text elements of HTML forms. **07**
- OR**
- Q.3 (a)** Give the names of JSP directives. Explain all attributes of JSP page directives. **07**
- (b)** Write a code to read HttpHeader in servlet. **07**
- Q.4 (a)** Give the standard steps for connecting and querying database with example. **07**
- (b)** Explain HttpSessionListener with suitable example. **07**
- OR**
- Q.4 (a)** Explain Prepared Statement with suitable example. **07**
- (b)** List and explain different Scripting elements used in JSP. **07**
- Q.5 (a)** What is JavaBean? How JavaBean can be used in web application explain it with suitable example. **07**
- (b)** What is the purpose of .tld file? Explain how to create custom tag with attributes with suitable example. **07**
- OR**
- Q.5 (a)** What is JSTL? Explain any five JSTL tags. **07**
- (b)** List and explain steps to create form based authentication. **07**

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