

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA - SEMESTER– IV EXAMINATION – WINTER 2019****Subject Code: 4649305****Date: 18-11-19****Subject Name: Java Web Technology****Time: 10:30 AM TO 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)** Answer the following **07**
- (1) What do you mean by session cookies and persistent cookies?
 - (2) What gets printed when $\${18+ (27/3)}$ expression is evaluated?
 - (3) CGI stands for _____.
 - (4) What kind of information 400-499 status code provides?
 - (5) What is use of HTTP 1.1 request header: user-agent?
 - (6) What are the four possible values of scope attribute in jsp:useBean?
 - (7) Compare `<jsp: include page= >` with `<% @include file= >`?
- (b)** (1) Explain JSP expressions, scriptlets and declarations with example. **04**
 (2) Provide difference between GenericServlet and HttpServlet. **03**
- Q.2 (a)** Define servlet. Explain lifecycle of servlet with appropriate code which generates html heading with the red color text “Welcome”. **07**
- (b)** Explain the following methods of HttpServletResponse with examples. **07**
 a) setStatus () b) sendError () c) sendRedirect () d) encodeURL ()
- OR**
- (b)** What is Session Management? Explain use of following session tracking API. **07**
 a) invalidate () b) isNew () c) getLastAccessedTime () d) setAttribute ()
- Q.3 (a)** Give the names of the JSP directives. Explain important attributes of `<% @page%>` (page directive) with example. **07**
- (b)** What is Deployment Descriptor? If you are using Tomcat, in which directory of your application configuration file should be kept? Explain the main components of a web application to be included in it. **07**
- OR**
- Q.3 (a)** What is JSP? Servlets are more useful for programming task while JSPs are more useful for generating output: -Justify your answer. **07**
- (b)** What is filter in servlet? Can a filter be attached to one or more servlets? Write a simple filter and mention its steps with appropriate xml file. **07**
- Q.4 (a)** Define EL. Discuss its implicit objects. **07**
- (b)** Explain the steps of database connection using JDBC with syntax. **07**
- OR**
- Q.4 (a)** What is the importance of JavaBeans in JSP? Explain important JSP actions to build and manipulate Java Bean component along with its attributes. **07**
- (b)** List and explain the different kinds of event listeners that respond to web application life-cycle events. **07**
- Q.5 (a)** What is JSTL? Give the use of following tags with example: **07**
 a) c:out b) c:url c) c: redirect d) c: choose
- (b)** What is cookie? Explain how cookies are send and received by the servlet with appropriate code. **07**

OR

- Q.5** (a) What is MVC? Justify the meaning of each word in its full-form. Explain implementing of MVC with Request Dispatcher. **07**
- (b) Compare Form Base Authentication with Basic Authentication. List the steps required to implement basic authentication. **07**

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