

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA– SEMESTER II- EXAMINATION –WINTER-2023**

**Subject Code:629408****Date: 27/12/2023****Subject Name: Java Web Technologies****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.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1** Answer following questions. **14**
1. Define Servlet.
  2. Write elements of web.xml file.
  3. List status code range with their use.
  4. List JSP action tags.
  5. Write use of <jsp:useBean>.
  6. If a web application has Servlet, Listener and Filter classes. Write sequence of instantiation done by the server.
  7. Differentiate JSP with Servlet.
- Q.2** (a) Explain Servlet request methods to read client form data with example. **07**  
(b) Differentiate following **07**
- i) forward() and include()
  - ii) GenericServlet and HttpServlet
- OR**
- (b) Explain ServletConfig Interface and its parameter with example. **07**
- Q.3** (a) Describe Cookie. Write programming statement to create cookie, retrieve cookie and delete cookie. **07**  
(b) List and explain HttpResponse headers. **07**
- OR**
- (a) Describe Session. Write programming statement to create session, retrieve session and delete session. **07**  
(b) List and explain HttpRequest headers. **07**
- Q.4** (a) Draw and explain MVC Architecture. **07**  
(b) List and Explain JSP implicit object with syntax. **07**
- OR**
- (a) Explain steps for connecting and inserting a record in database using JDBC. **07**  
(b) Explain JSP EL scripting with example. **07**
- Q.5** (a) Explain HttpSessionListener and Listener methods with example. **07**  
(b) List steps for implementing Form based Authentication. **07**
- OR**
- (a) Explain HttpContextListener and Listener methods with example. **07**  
(b) List steps for implementing BASIC Authentication. **07**

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