Seat No.: _____          Enrolment No._____

# GUJARAT TECHNOLOGICAL UNIVERSITY
## MCA– SEMESTER - II EXAMINATION- SUMMER-2023

**Subject Code: 629408**                                    **Date: 14/07/2023**
**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** | **(a)** | Explain following terms. | **07** |
| | | 1)  _____ environment variable is used to set the java path? | |
| | | 2)  What is Truncation in Java? | |
| | | 3)  MVC pattern stands for _____ . | |
| | | 4)  _____ can be connect to database in a web application? | |
| | | 5)  Storage capacity of cookies is _____ . | |
| | | 6)  _____ , process starts with each request and will initiate OS level process. | |
| | | 7)  _____ is used to pass information from JSP to included JSP. | |
| | **(b)** | Discuss various ways to prevent of EL in our JSP page. | **07** |
| **Q.2** | **(a)** | What are the differences between execute, executeQuary and executeUpdate. | **07** |
| | **(b)** | Explain Servlet Life Cycle with example and diagram. | **07** |
| | | **OR** | |
| | **(b)** | What is a cookie? How will you maintain session using cookies? | **07** |
| **Q.3** | **(a)** | Explain the steps to access the database using servlet. | **07** |
| | **(b)** | What do you mean by event listeners? Explain any 4 event listeners. | **07** |
| | | **OR** | |
| **Q.3** | **(a)** | What are status codes? Explain its different categories? How can a status code be set in a response? | **07** |
| | **(b)** | Write down steps for JDBC with example. | **07** |
| **Q.4** | **(a)** | Give the name of the JSP directives. Explain important attributes of <%@page%> (page directive) with example. | **07** |
| | **(b)** | Define expression language. Discuss its implicit objects. | **07** |
| | | **OR** | |
| **Q.4** | **(a)** | Explain the required steps for implementing MVC using request dispatcher with example code. | **07** |
| | **(b)** | Explain <jsp:useBean>, <jsp:getProperty> and <jsp:setProperty> with suitable example. | **07** |
| **Q.5** | **(a)** | Describe the use of getParameter(), getParameterValues() and getParameterNames() with suitable example. | **07** |
| | **(b)** | Write down steps for creating filters in detail | **07** |
| | | **OR** | |
| **Q.5** | **(a)** | Explain how can a JPEG file be generated in a servlet. | **07** |
| | **(b)** | Explain the steps of how RequestDispatcher can be used for implementing MVC. | **07** |

*************