

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER -II EXAMINATION –WINTER-2021

Subject Code: 629408**Date: 23/12/2021****Subject Name: Java Web Technologies****Time: 02:30 PM TO 05:00 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) What is servlet? Explain life cycle of servlet with example. **07**
(b) Explain the methods :getParameter(), getParameterValues(), getParameterNames(). **07**
- Q.2** (a) What is the usage of cookies? Explain how cookies are send and received by the servlet. **07**
(b) List and explain any seven response headers. **07**
- OR**
- (b) What are status codes? List and explain different status codes available. **07**
- Q.3** (a) What is session management? Explain session management API in detail. **07**
(b) What do you mean by event listeners? Explain any 4 event listeners. **07**
- OR**
- Q.3** (a) What are filters? How can we create and use filters? Explain. **07**
(b) Explain page directive with its attributes. **07**
- Q.4** (a) Discuss the classic approach to invoke java code from JSP. Explain any one with example. **07**
(b) Explain JSP 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) Define expression language. Discuss its implicit objects. **07**
(b) Explain the use of PreparedStatement with suitable example. **07**
- OR**
- Q.5** (a) Write and explain steps to create form-based authentication with suitable example. **07**
(b) Write down steps for connecting to a database using JDBC. Explain in detail with code snippet. **07**
