

Time : 3.00 Hours]

**MCA Sem.-3 Examination
Enterprise Java Technologies
December-2025**

[Max.Marks :50

Instructions:

- Write both the Sections in the separate answer book.
- Both Sections having equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

SECTION – I

- Q-1 Explain the following terms with an appropriate example: [5]
- a. State reason for requiring session management in web application.
 - b. Write syntax and use of EL in JSP.
 - c. Discuss advantages of JSP over Servlet.
 - d. List names of JDBC drivers.
 - e. Explain the methods :getParameter(),
- Q-2 Attempt the following :
- a. Explain the design and architecture of JDBC with a neat diagram. [5]
 - b. Explain various components of a web application with a neat diagram. [5]
Discuss client, server, container, and deployment units.
- OR**
- Attempt the following :
- Q-2
- a. What is the MVC (Model–View–Controller) design pattern? Explain its components and how it helps structure web applications. [5]
 - b. Explain the structure of an HTTP Response. Describe status codes, response headers, and response body with suitable examples [5]
- Q-3 Attempt the following :
- a. What is a JAR file in Java? Explain why developers use JAR files and how they help in packaging applications. [5]
 - b. Explain steps with syntax to connect with database using JDBC [5]
connectivity and retrieve data from a database table.

OR

- Q-3 Attempt the following:
- a. What is servlet? Explain life cycle of servlet with example [5]
 - b. How do Servlets work with HTTP? Explain how servlets handle [5]
HTTP requests and generate responses.

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SECTION – II

- Q-4 Explain the following Terms with an appropriate example. [5]
- Write elements of web.xml file.
 - What is a WAR file?
 - List status code range with their use.
 - List JSP action tags.
 - Explain ServletContext.
- Q-5 Attempt the following: [5]
- What are different ways to write java code in JSP? Explain any one with example [5]
 - Explain JSP scripting elements with examples. Discuss `<% %>`, `<%= %>`, and `<%! %>` along with their uses. [5]
- Q-5 **OR**
- Attempt the following: [5]
- Write and explain JSP implicit objects [5]
 - List and explain HttpRequest headers.
- Q-6 Attempt the following: [5]
- What are different ways to write java code in JSP? Explain any one with example [5]
 - What is the difference between `forward()` and `response.sendRedirect(url)?`
- Q-6 **OR**
- Attempt the following: [5]
- Explain interface and class of `javax.servlet.tagext` package.
 - What is Status Code? Define any five important status code of HTTP1.1 [5]

—X—