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## **MCADD-804 (1)**

**M.C.A. (Integrated), VIII Semester**

Examination, May 2024

### **Java-II**

(Elective - III)

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Define HTML and explain its significance in web development. Write the HTML code to create a basic webpage structure.  
b) i) Write HTML code to create a simple form with input fields for a user's name, email and message.  
ii) How would you add a dropdown menu to the form?
2. a) What is CSS also Explain the difference between inline, internal and external CSS?  
b) Write CSS code to create a simple animation that fades in an element over 2 seconds.3.
3. a) Explain the architecture of a JSP application. What are JSP tags, and how are they different from HTML tags?  
b) Explain the purpose of the `<jsp:include>` and `<jsp:forward>` tags in JSP and provide examples of their usage.

4. a) Explain the concept of the Model-View-Controller (MVC) architecture in web development.  
b) Implement a simple MVC-based web application that allows users to register and login.
5. a) Provide examples of scenarios where you would use the "extends" attribute in JSP development.  
b) Describe the role of JavaBeans components in JSP applications.
6. a) How do you handle reading and writing CLOB and BLOB data using JDBC?  
b) What is JSTL Expression Language (EL) and how does it differ from traditional scripting elements in JSP?
7. a) Describe the life cycle phases of an enterprise bean in the EJB (Enterprise JavaBeans) specification.  
b) Discuss strategies for implementing CRUD (Create, Read, Update, Delete) operations with entity beans.
8. a) How do you create and configure Action classes to process specific actions or events in a Struts application?  
b) Discuss the life cycle of an Action Form instance during request processing in Struts.

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