

MCA Sem.-3 Examination
Enterprise Java Technologies
December-2024

Time : 3-00 Hours]

[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 : Attempt the following (Each question carries 2 marks)

8

- a. What is the purpose of the JDBC API?
- b. What is the difference between a DSN and a DSN-less connection in ODBC?
(Here DSN means Data Source Name)
- c. Name any two ODBC function for connecting to a data base.
- d. What is the purpose of a servlet?

OR

Q-1: Attempt the following (Each question carries 2 marks)

8

- a. How do you configure an ODBC data source?
- b. Name one JDBC method for executing a query.
- c. What is the purpose of the ServletConfig object?
- d. What is the purpose of a JSP?

Q-2 : Attempt the following (Each question carries 3 marks)

9

- a. What are the different types of JDBC drivers? Explain their characteristics.

OR

- a. What is the purpose of the ODBC Driver Manager? How does it manage ODBC drivers?
- b. What are the different types of JSP directives? Explain their roles.

OR

- b. What is ResultSet? Explain its types
- c. How do you handle HTTP requests and responses in a servlet? Provide an example

Q-3 : Attempt the following (Each question carries 4 marks)

8

- a. What is the difference between a servlet and a JSP?
- b. Write an HTML code to create login form having one submit button, two textboxes labelled as login name and password as respectively. Write a Servlet class named as ReadParameter to read these two parameters and display entered parameters values on the page using doGet() method when user clicked on submit button

OR

Q-3 : Attempt the following (Each question carries 4 marks)

8

- a. What is Session Tracking? Explain its techniques with syntax.
- b. Describe steps for connecting Java Program and Database

P.T.O.

Section – II

Q-4 : Attempt the following (Each question carries 2 marks)**8**

- How do you handle exceptions in a servlet?
- How do you initialize a servlet?
- What is the purpose of the ODBC API?
- Explain implicit object in JSP.

OR**Q-4 : Attempt the following (Each question carries 2 marks)****8**

- What is the purpose of the ODBC Connection String?
- What is the difference between a Statement and a PreparedStatement in JDBC.
- Write about Cookies in JSP
- Write Short note on JSP scripting element.

Q-5 : Attempt the following (Each question carries 3 marks)**9**

- Write down the advantages and disadvantages of JDBC

OR

- What are key benefits of the JDBC Driver Manager?
- What is the life cycle of a Servlet?

OR

- Explain the difference between a Generic Servlet and HTTP Servlet?
- What is the purpose of the doGet() and doPost() method? Explain it with example.

Q-6 : Attempt the following (Each question carries 4 marks)**8**

- What is the use of the JSP Expression Language (EL)? Explain it with example
- Describe JDBC Architecture

OR**Q-6 : Attempt the following (Each question carries 4 marks)****8**

- Explain request dispatcher and its function forward() and include() with its diagram.
 - Describe JSP Life cycle with diagram
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