

(Please write your Exam Roll No.)

Exam Roll No. 06021402051

END TERM EXAMINATION

FIFTH SEMESTER [BCA] DECEMBER 2023 – JANUARY 2024

Paper Code: BCAT315

Subject: Web Development with Java & JSP

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions in all including Q. No.1 which is compulsory. Select one question from each unit.

Q1 Write a short note on any of the following: (Any Five) (5x5=25)

- (a) Explain the types of servers in J2EE.
- (b) Compare between AWT controls and Swings.
- (c) Discuss the concept of JSTL.
- (d) Differentiate between JDBC and ODBC.
- (e) List out some advantages of using JSP
- (f) What are servlets? What are its benefits?
- (g) Discuss the concept of Springs.
- (h) Explain the Web Application Directory Structure.

UNIT-I

Q2 (a) What is J2EE? With a neat block diagram, explain the architecture of J2EE. (6.5)
(b) What do you mean by web container? Discuss different types of Web architecture models. (6)

Q3 (a) Why Swing components are called lightweight components? Write a JAVA program to build a Calculator in Swings. (6.5)
(b) Discuss different technologies of J2EE application. (6)

UNIT-II

Q4 (a) What is JDBC? Discuss different steps for creating JDBC. Write a pseudo code program in Java for connecting front end applications with the backend database. (6.5)
(b) What are servlets? What are its benefits? Discuss the Servlet life cycle. (6)

Q5 (a) Discuss the steps for creating a servlet and the structure for creating Servlets. (6.5)
(b) Explain various JDBC drivers. (6)

UNIT-III

Q6 (a) Write down the steps to configure Apache Tomcat and write a program to demonstrate different directive in JSP. (6.5)
(b) Explain the term JSF? Discuss the architecture of JSF web application. (6)

Q7 (a) What is JSP? Discuss its life cycle in detail. (6.5)
(b) Differentiate between JSP and JSF. (6)

UNIT-IV

Q8 (a) Explain Inet address class. Write a program to find the IP address of any website using the methods of Inet address class. (6.5)
(b) What is Hibernate? Discuss its architecture in detail. (6)

Q9 (a) Explain the following terms: (6.5)
(i) Struts
(ii) Beans
(iii) Sockets
(b) Discuss Hibernate mapping types. (6)

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