

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:

- (i) Struts
 - (ii) Beans
 - (iii) Sockets
- (b) Discuss Hibernate mapping types. (6)