PAPER ID-311073

Roll No: | | | | | | | | | | | | | | |

BTECH
(SEM V) THEORY EXAMINATION 2023-24
WEB TECHNOLOGIES

TIME: 3 HRS   **M.MARKS: 70**

Note: **1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1.   Attempt *all* questions in brief.   **2 x 7 = 14**

a.	What do you mean by Checked Exceptions?
b.	Explain the protocols governing the web.
c.	Briefly explain difference between DOM and SAX.
d.	What are the uses of super and this keyword in Java? Explain with a suitable example.
e.	Illustrate why servlets are better than JSP.
f.	Explain briefly OOPs concepts in Java
g.	Expand the following: (i) JDBC (ii) EJB (iii) AJAX (iv) XML

SECTION B

2.   Attempt any *three* of the following: **7 x 3 = 21**

a.	What is the significance of finally block in exception handling? How it is different from the catch block? Explain the importance of finally with the help of a suitable program.
b.	Compare Java and JavaScript. Write a JavaScript program to define a user defined function for finding the average of values in an array.
c.	What is difference between Session and Cookies? Write a servlet program for servlet login and logout using cookies.
d.	What is DTD? What are the differences between external and internal DTD? Use suitable example.
e.	What do you mean by JSP processing? How JSP pages are handled? Explain various JSP directives with suitable examples.

SECTION C

3.   Attempt any *one* part of the following: **7 x 1 = 7**

a.	Explain EJB architecture. What are its various types? Describe the steps used to create JavaBean and to build application using BDK.
b.	What is JDBC? Explain the Drivers used in JDBC. Write a JDBC Program for insert and display the record of employees using prepared statement.

4.   Attempt any *one* part of the following: **7 x 1 = 7**

a.	Write a Java program for client-server interaction.
b.	What is AJAX? Explain the application of AJAX with the help of suitable examples.

Roll No: | | | | | | | | | | | |

BTECH
(SEM V) THEORY EXAMINATION 2023-24
WEB TECHNOLOGIES

TIME: 3 HRS   **M.MARKS: 70**

5. **Attempt any *one* part of the following:**   **7 x 1 = 7**

a.	What is XML? Discuss the significance of XML. How is XML different from HTML? Explain the process of parsing. How are they useful?
b.	Create an email registration form in HTML. Validate name, email id and date of birth fields using JavaScript and display a customized error message in case of wrong submission.

6. **Attempt any *one* part of the following:**   **7 x 1 = 7**

a.	What are implicit Objects in JSP? Explain
b.	Write a program to define a class named Employee with attributes name salary and Emp_id. Also provide a parameterized constructor to initialize all the attributes. Create a class Test Employee having three employee objects, save the information in an array list. Implement a method public void search (int id) which displays the name and salary of the employee with given id.

7. **Attempt any *one* part of the following:**   **7 x 1 = 7**

a.	WAP to create an applet for Calculator. Use event handling to perform all the basic arithmetic operators.
b.	Write a Program in which prompt the user to enter a String. If the size of String is odd, then throw a User-defined exception InvalidStringException and display "String is Not Accepted". Re-throw the caught exception from catch block to print "Thanks for using this Program".