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

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

TIME: 3 HRS   **M.MARKS: 100**

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

SECTION A

1. **Attempt *all* questions in brief.**

Q no.	Question	Marks	CO
a.	Explain the difference between "equals ()" and = = method in String class?	2	CO1
b.	Describe the use of Constructor in Java.	2	CO1
c.	Explain the anchor and table tag in HTML.	2	CO2
d.	Write a code to add Text field in a web page using HTML.	2	CO2
e.	Compare internal DTD and external DTD.	2	CO3
f.	Which package is imported to implement JDBC?	2	CO3
g.	Differentiate between ResultSet and RowSet with suitable examples.	2	CO4
h.	What are the different types of JDBC drivers?	2	CO4
i.	Define four techniques used in session tracking.	2	CO5
j.	Discuss the process to set the class path for servlet in tomcat server.	2	CO5

SECTION B

2. **Attempt any *three* of the following:**

Q no.	Question	Marks	CO
a.	Design an applet with the help of Graphics class to draw line, rectangle, oval, and circle.	10	CO1
b.	Design a registration form, for a student who is seeking admission in an engineering college. Assume all the necessary fields and write the HTML code for the same.	10	CO2
c.	Why Packages are used in java? How a user defined package is created in java, explain with example?	10	CO1
d.	How AJAX like technologies is useful? Describe the use of AJAX for single page processing?	10	CO3
e.	What is JDBC? Write a code to perform merging of Data from Multiple Tables	10	CO4

SECTION C

3. **Attempt any *one* part of the following:**

Q no.	Question	Marks	CO
a.	Explain AWT and its control. Define the role of layout manager to manage the AWT controls.	10	CO1
b.	Create two classes manager and cashior. Take the salary as data member of both classes. Consider getdata() and putdata() as member functions of both the classes. Also define two functions, first function to find who has maximum salary and second function to find salary difference. Take both functions as friend function.	10	CO1

4. **Attempt any *one* part of the following:**

Q no.	Question	Marks	CO
a.	Why XML parsers are used? Differentiate between DOM and SAX parser.	10	CO2
b.	Why we use the XML schemas? How it is different from DTD? Describe an XML schema with a suitable example.	10	CO2

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5.   **Attempt any *one* part of the following:**

Q no.	Question	Marks	CO
a.	What are scripting languages and why java script is used? Write a JavaScript program to create the password field.	10	CO3
b.	What are factory methods in Java Networking? Write a program in java to demonstrate, how the communication is established between client and server?	10	CO3

6.   **Attempt any *one* part of the following:**

Q no.	Question	Marks	CO
a.	What are JDBC drivers? Describe the Java Database connectivity steps to execute a query.	10	CO4
b.	Why EJB is used? Design the EJB architecture and distinguish the stateless and stateful EJB.	10	CO4

7.   **Attempt any *one* part of the following:**

Q no.	Question	Marks	CO
a.	How JSP is different from Servlet? Describe the JSP scripting tags with suitable example and code.	10	CO5
b.	What are JSP implicit objects and JSP directives? Define any 4 implicit objects and 3 JSP directives.	10	CO5