

**Subject Code: XXXXX**

**Roll No:**

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**BTECH  
(SEM-5) WEB TECHNOLOGY 2021-22**

**TIME:3 HOUR**

**Total Marks: 100**

**Instruction:** Attempt the questions as per the given instructions. Assume missing data suitably.

**SECTION - A**

**Attempt *All Parts* in Brief**

**2\*10 = 20**

| <b>Q1</b> | <b>Questions</b>   | <b>Marks</b> |
|-----------|--|--------------|
| (a)       | What is Domain Name System (DNS) ?                         | 2            |
| (b)       | Discuss various web project development phases.            | 2            |
| (c)       | What are the difference between IP packet and Datagrams?   | 2            |
| (d)       | Write HTML code for inserting image on a web page.         | 2            |
| (e)       | Name two major protocols for accessing email from servers. | 2            |
| (f)       | Define Document Object Model (DOM).                        | 2            |
| (g)       | What is the concept behind client-server computing?        | 2            |
| (h)       | Expand the term AWT. For what purpose it is being used?    | 2            |
| (i)       | What do you understand by session tracking.                | 2            |
| (j)       | What is implicit object in JSP?                            | 2            |

## SECTION - B

Attempt *Any Three* of the following

**3\*10 = 30**

| Q2  | Questions   | Marks |
|-----|---|-------|
| (a) | Design HTML form for student registration with submit and reset button on it.   | 10    |
| (b) | Explain CSS and its types with example.   | 10    |
| (c) | Explain JavaScript function and write a program to make a calculator using JavaScript.  | 10    |
| (d) | What are XML Parsers ? Explain the types of Parsers with their advantages and disadvantages.                                  | 10    |
| (e) | What are the advantages and drawback of an applet? Write a Java program to create an applet and perform event handling on it. | 10    |

## SECTION - C

Attempt *Any One* of the following

**5\*10 = 50**

| Q3  | Questions  | Marks |
|-----|--|-------|
| (a) | Create an HTML page name as "table.html" to display your class time table.   | 10    |
| (b) | Explain Enterprise Java Bean in detail and explain its types. Create a message driven java bean.   | 10    |
| Q4  | Questions  | Marks |
| (a) | What is JDBC? Explain the driver used in JDBC. Write JDBC program to insert and display the record of employees using prepared statement.              | 10    |
| (b) | Explain string handling and event handling in Java.  | 10    |
| Q5  | Questions  | Marks |
| (a) | What is the difference between Session and Cookies? Write a servlet program for servlet login and logout using cookies.                                | 10    |
| (b) | What is XML ? Create a XML document of 10 students of third year CSE. Add their roll number, marks obtained in 5 subjects, total marks and percentage. | 10    |
| Q6  | Questions  | Marks |
| (a) | Discuss Servlet and its life cycle in detail. How do you create a servlet?   | 10    |

|           |   |              |
|-----------|---|--------------|
| (b)       | Explain JSP Architecture and explain the JSP Processing in detail.    | 10           |
| <b>Q7</b> | <b>Questions</b>  | <b>Marks</b> |
| (a)       | Explain Internet Addressing. How will you identify IP Class?          | 10           |
| (b)       | How exceptions are handled in java ? Explain in detail with examples. | 10           |