



**B.Tech VI Semester Supplementary Examinations, February 2024**

**WEB TECHNOLOGIES**  
(CSE)

**Maximum Marks: 70**

**Date:20.02.2024 Duration: 3 hours**

- Note:**
1. This question paper contains two parts A and B.
  2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
  3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
  4. Each question carries 10 marks and may have a, b, c, d as sub questions.

**Part-A**

All the following questions carry equal marks		(10x2M=20 Marks)	CO	Bloom Tx
1	Differentiate between \$ GET() and \$ POST() methods in PHP.		CO1	L2
2	Define Cookie. List different types of cookies presents in PHP		CO1	L1
3	What are the advantages of XML Schemas over DTD?		CO2	L1
4	"XML is platform independent". Justify		CO2	L2
5	What are the limitations of Servlets?		CO3	L1
6	Define JDBC. List various JDBC drivers.		CO3	L1
7	Write a JSP expression to display current date and time in a web page.		CO4	L1
8	List different implicit JSP objects		CO4	L1
9	Write a JavaScript program that read a number from the user and displays whether it is an Even or Odd number.		CO5	L1
10	Give the purpose of XMLHttpRequest object in AJAX framework.		CO5	L2

**Part-B**

Answer All the following questions.		(5X10M=50Marks)														
11	A. List different types of Arrays in PHP. Give examples for each. (4M) B. Explain in detail about the following file handling functions with examples: (6M) (i) fopen()      (ii) fread()      (iii) fclose()		CO1	L3 L2												
<b>OR</b>																
12	A. Design a PHP page that Connects to MySQL and retrieves the details of the CARS stored in the following table and presents it to the user. (5M) 'CARS' Table: <table border="1" style="margin: 5px auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">CarID</th> <th style="padding: 2px;">Manufacturer</th> <th style="padding: 2px;">Model</th> <th style="padding: 2px;">Year of Release</th> <th style="padding: 2px;">Color</th> <th style="padding: 2px;">Price</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> B. Explain in detail different types of functions in PHP with examples. (5M)	CarID	Manufacturer	Model	Year of Release	Color	Price								CO1	L6  L2
CarID	Manufacturer	Model	Year of Release	Color	Price											
13	A. Define DTD. Design an external DTD for the following XML file. (5 M) cars.xml: <pre> &lt;cars-details &gt;   &lt;car carid="114"&gt;     &lt;brand&gt; Ford &lt;/brand&gt;     &lt;model&gt; Focus &lt;/model&gt;     &lt;year&gt; 2019 &lt;/year&gt;     &lt;color&gt; Green &lt;/color&gt;           </pre>		CO2	L6												

	<pre> &lt;weight&gt; 1254 &lt;/weight&gt; &lt;price currency="INR"&gt; 700000 &lt;/price&gt; &lt;/car&gt; &lt;/cars-details&gt; </pre>		L2
	B. Differentiate between DOM and SAX Parsers. (5M)		
	OR		
14	A. Compare XML with HTML. (4M) B. What is the basic structure of an XML file? List and explain the basic building blocks of an XML file. Create an XML file which stores the details of employees which includes: id, name and department. (6M)	CO2	L4 L3
15	A. Explain in detail Life cycle of a Servlet. Give the syntax for all the life cycle methods. (5M) B. Write a Servlet that Welcome the user by name [Eg: Welcome CSE]. Accept the username through a HTML form. (5M)	CO3	L2 L3
	OR		
16	A. Design a simple servlet that displays a message "HELLO WORLD!" in bold type on the browser display area. (5M) B. Define Cookie. Illustrate with an example the process of creating and accessing cookies. (5M)	CO3	L6 L2
17	A. Explain the lifecycle of JSP. Discuss the two phases of JSP processing with a suitable diagram. (5M) B. Develop a JSP to keep track number of visitors for a website and display a message "Number of Visitors: N" where N is the number using Sessions. (5M)	CO4	L2 L6
	OR		
18	A. Explain in detail different JSP Scripting Elements with examples. (5M) B. How functions are declared in JSP? Write a JSP program using functions to display even numbers from 1 to 20. (5M)	CO4	L2 L2
19	A. Explain with examples onClick and onSubmit event handlers in Javascript. (5M) B. Sketch and explain architecture of AJAX application. (5M)	CO5	L2 L4
	OR		
20	Design the following Login form HTML. Validate the login form using JavaScript. (10M)	CO5	L6
	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p style="text-align: center;"><b>Login Form</b></p> <p>Username <input style="width: 100px;" type="text"/></p> <p>Password <input style="width: 100px;" type="password"/></p> <p style="text-align: center;"> <input type="button" value="Login"/> <input type="button" value="Reset"/> </p> </div>		