R18

ANURAG Engineering College
(An Autonomous Institution)
III B.Tech II Semester Supplementary Examinations, December-2024
WEB TECHNOLOGIES
(COMPUTER SCIENCE AND ENGINEERING)

Time: 3 Hours   **Max.Marks:75**

Section – A (Short Answer type questions)   (25 Marks)
Answer All Questions

		Course Outcome	B.T Level	Marks
1.	Define MIME (Multipurpose Internet Mail Extensions).	CO1	L1	2M
2.	What are the main components of a web browser?	CO1	L1	3M
3.	How are primitives, operations, and expressions used in JavaScript?	CO2	L2	2M
4.	What are control statements in JavaScript, and how are they used?	CO2	L1	3M
5.	What is the purpose of XML, and why is it commonly used in web development?	CO3	L2	2M
6.	How do namespaces contribute to organizing XML documents?	CO3	L2	3M
7.	How can servlets read form data,	CO4	L2	2M
8.	Explain how servlets can generate plain text	CO4	L2	3M
9.	Why is there a need for JSP technology in web development?	CO5	L2	2M
10.	What are the differences between servlets and JSP pages?	CO5	L2	3M

Section B (Essay Questions)
Answer all questions, each question carries equal marks. (5 X10M = 50M)

11. A)	Differentiate between HTML and XHTML. How do URLs function in web browsing?		CO1	L2	10M
		OR			
B)	Implement a table using XHTML to display a list of items with their corresponding details.		CO1	L3	10M
12. A)	Develop a JavaScript function that takes user input from a textbox and displays it on the webpage. Create an array in JavaScript and demonstrate its usage in a practical example.		CO2	L3	5M 5M
		OR			
B)	Develop a dynamic webpage using JavaScript that dynamically positions and moves elements based on user interaction.		CO2	L3	10M
13. A)	Implement an XML processor to parse and manipulate XML data in a web application.		CO3	L3	10M
		OR			
B)	Compare and contrast the advantages and disadvantages of various XML processors available in web development.		CO3	L3	10M
14. A)	Analyze the role of servlet filters in intercepting and manipulating HTTP requests and responses.		CO4	L3	10M
		OR			
B)	Evaluate the advantages of using prepared statements over regular statements in JDBC for database access.		CO4	L3	10M

15. A)	Integrate servlets and JSP pages following the Model-View-Controller (MVC) architecture.	CO5	L3	10M
	OR			
B)	Examine the role of hypernets and Struts 2.0 in simplifying and enhancing the development of web applications.	CO5	L3	10M