ANURAG Engineering College

(An Autonomous Institution)

III B.Tech II Semester Regular/Supplementary Examinations, June/July-2024 WEB TECHNOLOGIES

(COMPUTER SCIENCE AND ENGINEERING)

Time:	Time: 3 Hours Max.Mark			
	Section – A (Short Answer type questions)	Course	(25 Marks) B.T Marks	
Answer All Questions		Outcome	Level	
1.	What is the significance of servers in the context of the internet?	CO1	L2	2M
2.	How does the evolution of HTML lead to XHTML?	CO1	L2	3M
3.	What is the relationship between JavaScript and object orientation?	CO2	L1	2M
3. 4.	Describe the process of screen output and keyboard input in	CO2	L1	3M
4.	JavaScript.	002	Di	5141
5.	Differentiate between Document Type Definitions (DTD) and XML Schemas.	CO3	L2	2M
6.	Describe the structure of an XML document and its components.	CO3	L1	3M
7.	Describe the basic structure of a servlet	CO4	L1	2M
8.	What is the importance of form data in client-server	CO4	L1	3M
0.	communication?	001		0111
0	Explain the basic syntax of JSP pages.	CO5	L1	2M
	What are the key differences between servlets and JSP pages?	CO5	L2	3M
10.	what are the key differences between services and 151 pages:	003	LL	5141
	Section B (Essay Questions)			
Answer all questions, each question carries equal marks.		(5.2	X 10M =	= 50M)
11. A)		CO1 `	L3	10M
	in XHTML			
	OR			
В)	Compare and contrast the structure of HTML and XHTML. Also Analyze the advantages and disadvantages of using frames in web design	CO1	L2	10M
10 4	A. J. G. Carlot Properties President and its significance	CO2	L3	10M
12. A)	Analyze the Java Script Execution Environment and its significance in web development. Also Compare and contrast the DOM tree traversal and modification techniques in JavaScript. OR	CO2	Τ3	10101
B)	Create a JavaScript function that changes the visibility, color, and font of webpage elements dynamically.	CO2	L2	10M
13. A)	Analyze the role of XML schemas in ensuring data integrity and interoperability in web services. Also Evaluate the effectiveness of using CSS vs. XSLT for displaying XML documents in web applications.	CO3	L3	10M
	OR	965		4.07.5
B)	Develop a dynamic web application using AJAX to retrieve XML data from a server and display it on the client side.	CO3	L3	10M

14. A)	Design a servlet that reads three parameters from a form submission and processes them accordingly. Also explain the classes and interfaces used.	CO4	L3	10M
	OR			
B)	Explain the potential challenges in handling database transactions using JDBC and give the appropriate solutions.	CO4	L3	10M
15. A)	What are code reusability and maintainability, and how can they be implemented in JSP? Provide an example demonstrating the creation of a reusable library of JSP tag files for common UI components.	CO5	L2	10M
	OR			
B)	Write a JSP page that includes Java code using scriptlet elements to display dynamic content.	CO5	L3	10M