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Question Paper Code	12359
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023
 Fifth Semester
Information Technology
20ITPC501 - WEB TECHNOLOGY
 (Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
 Answer ALL Questions

*Marks,
 K-Level, CO*

- | | |
|---|-----------------|
| 1. Outline the structure of HTTP request message. | <i>2,K2,CO1</i> |
| 2. Distinguish between absolute and relative URLs. | <i>2,K2,CO1</i> |
| 3. What are literals in JavaScript? | <i>2,K1,CO2</i> |
| 4. Write a JavaScript statement that gets the last element of an array. | <i>2,K2,CO2</i> |
| 5. What is a servlet container? | <i>2,K1,CO3</i> |
| 6. Identify the role of cookies in server-side programming. | <i>2,K2,CO3</i> |
| 7. Justify the need for namespaces in XML. | <i>2,K2,CO4</i> |
| 8. What are the important of SAX? | <i>2,K1,CO4</i> |
| 9. List any two features of SOAP. | <i>2,K1,CO6</i> |
| 10. State the usage of Java Web services. | <i>2,K1,CO6</i> |

PART - B (5 × 13 = 65 Marks)
 Answer ALL Questions

11. a) (i) Create an HTML table that displays the following table: *7,K3,CO1*

Time Table					
	Mon	Tue	Wed	Thu	Fri
Hours	Science	Maths	Science	Maths	Arts
	Social	History	English	Social	Sports
	Lunch				
	Science	Maths	Science	Maths	Project
	Social	History	English	Social	

- (ii) Identify the text properties supported by CSS? Explain any four text properties with suitable examples. *6,K3,CO1*

OR

- b) Illustrate the structures of HTTP request message and response message. *13,K2,CO1*
12. a) (i) Develop a JavaScript program to calculate multiplication and division of two numbers. Read the input from user. *7,K2,CO2*
(ii) Develop an Angular JS script that initializes a model using an Angular controller that is defined with a global function. *6,K2,CO2*
- OR**
- b) Demonstrate the various event handlers in java script give an example. *13,K2,CO2*
13. a) (i) Illustrate the life cycle of a Java Servlet. Also, list the steps to be followed while running a servlet. *7,K2,CO3*
(ii) Develop a servlet that keeps track of number of users visited in a web page. *6,K3,CO3*
- OR**
- b) Discuss in detail about DOM with necessary illustrations. *13,K2,CO3*
14. a) Write a JSP to demonstrate the usage of page and include directives. *13,K2,CO4*
- OR**
- b) What is a JavaBeans component? How will you use the JSP language elements for accessing Beans in your JSP pages? *13,K2,CO4*
15. a) Build a Java web server program that receives a string from a client, finds the length of the string and returns the same to client. Also, write a client that reads a string, sends to a sever and receives the length of the string from the server. *13,K3,CO6*
- OR**
- b) Explain the role of the callback function in AJAX and the procedure of the integration of AJAX and PHP. *13,K2,CO6*

PART - C (1 × 15 = 15 Marks)

16. a) Explain in detail about Model View Controller. *15,K2,CO5*
- OR**
- b) With an example program, explain how XML transformation takes place with the help of XSLT. *15,K2,CO5*