

<b>Reg. No.</b>																			
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<b>Question Paper Code</b>	<b>13919</b>
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**B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2025**

Fifth Semester

**Computer Science and Engineering**

(Common to Computer Science and Engineering (IoT))

**20CSPC501 - INTERNET PROGRAMMING**

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

**PART - A (MCQ) (10 × 1 = 10 Marks)**

Answer ALL Questions

	<i>Marks</i>	<i>K- Level</i>	<i>CO</i>
1. Which attribute specifies the path of an image in HTML? (a) link                      (b) href                      (c) src                      (d) path	1	K1	CO1
2. Show the CSS property which defines the transparency of an element (a) visibility                      (b) opacity                      (c) transparent                      (d) alpha	1	K1	CO1
3. Which function is used to display an alert box in JavaScript? (a) show()                      (b) prompt()                      (c) alert()                      (d) confirm()	1	K1	CO2
4. Show the function that converts a JavaScript object into a JSON string? (a) JSON.parse()                      (b) JSON.stringify()                      (c) toJSON()                      (d) stringifyJSON()	1	K2	CO2
5. Which of the following best describes JDBC? (a) A protocol for server communication                      (b) A set of classes for database access in Java (c) A markup language                      (d) A servlet library	1	K2	CO3
6. Why is POST preferred over GET for sensitive form data? (a) POST is faster                      (b) POST hides parameters in request body (c) GET doesn't support form submission                      (d) POST doesn't require internet	1	K2	CO3
7. Which operator is used for concatenation in PHP? (a) +                      (b) &                      (c) .                      (d) ,	1	K1	CO4
8. Write the output of the following PHP code? <?php \$x = "Hello"; \$y = 'World'; echo \$x . " " . \$y; ?>	1	K3	CO4
(a) HelloWorld                      (b) Hello World                      (c) Hello+World                      (d) Error			
9. Which tag is used to define the root element in XML? (a) <header>                      (b) <root>                      (c) User-defined tag                      (d) <xml>	1	K1	CO5
10. Which HTTP methods are most commonly used in AJAX requests? (a) CONNECT and TRACE                      (b) PUT and DELETE (c) GET and POST                      (d) OPEN and CLOSE	1	K1	CO6

**PART - B (12 × 2 = 24 Marks)**

Answer ALL Questions

11. What is the role of rule cascading in CSS3?	2	K1	CO1
12. Develop an HTML code to insert an image with alternate text.	2	K2	CO1
13. Compare alert() and prompt() functions with examples.	2	K2	CO2
14. Where JSON widely used for data exchange?	2	K1	CO2
15. Summarize the basic steps in establishing a JDBC connection.	2	K2	CO3
16. Outline the use of `<jsp:include>` tag in JSP.	2	K2	CO3
17. List the rules for declaring variables in PHP.	2	K1	CO4

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| 18. List out the advantages of PHP.  | 2 | K1 | CO4 |
| 19. Write an XML document referring to an external DTD.                                    | 2 | K2 | CO5 |
| 20. Write an XML Schema to define an element <employee> with sub-elements <name> and <id>. | 2 | K2 | CO5 |
| 21. Summarize the purpose of the readyState property in the XMLHttpRequest object.         | 2 | K2 | CO6 |
| 22. Demonstrate how to handle AJAX response data using a callback function?                | 2 | K2 | CO6 |

**PART - C (6 × 11 = 66 Marks)**

Answer ALL Questions

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| 23. a) Write an interactive web page for student registration using HTML form and frame elements.                                      | 11 | K3 | CO1 |
| <b>OR</b>  |    |    |     |
| b) Make use of different ways of inserting a CSS to a document with examples.  | 11 | K3 | CO1 |
| 24. a) Analyze the validation techniques on form fields using JavaScript.  | 11 | K4 | CO2 |
| <b>OR</b>  |    |    |     |
| b) Design a small interactive application combining multiple JavaScript concepts like DOM manipulation, events and JSON data handling. | 11 | K4 | CO2 |
| 25. a) Compare the working of GET and POST methods in Servlets with respect to performance and security.                               | 11 | K3 | CO3 |
| <b>OR</b>  |    |    |     |
| b) Differentiate between JSTL Core tags and JSTL SQL tags with examples.   | 11 | K3 | CO3 |
| 26. a) Demonstrate the string comparison capability of PHP using regular expression with an example.                                   | 11 | K3 | CO4 |
| <b>OR</b>  |    |    |     |
| b) Examine file handling concepts in PHP with examples.  | 11 | K3 | CO4 |
| 27. a) Write an XML file for employee records and show how it can be validated using both DTD and XML Schema.                          | 11 | K3 | CO5 |
| <b>OR</b>  |    |    |     |
| b) Develop a DOM-based parser program to read and display data from an XML file.   | 11 | K3 | CO5 |
| 28. a) Create an AJAX script to fetch JSON data from a REST API and display it dynamically on a web page.                              | 11 | K3 | CO6 |
| <b>OR</b>  |    |    |     |
| b) Describe error handling techniques in AJAX with suitable code snippets.   | 11 | K3 | CO6 |