

WAD Question Bank

- Q1. How can you create an HTML table with rows and columns, and apply a hover effect to change the background color of each row when the mouse pointer moves over it?
- Q2. What are the differences between absolute, fixed, and relative positioning in CSS, and when would you use each one?
- Q3. What is the DOM in web development, and how does it represent the structure of an HTML document?
- Q4. What are the key differences between the GET and POST HTTP methods, and in what scenarios should each be used?
- Q5. What is the difference between a Document Type Definition (DTD) and an XML Schema?
- Q6. Can you provide an example of an XML Schema that validates a store's customer information, including elements like name, email, and phone number?
- Q7. What is a JavaScript object, and how can you create and manipulate objects in JavaScript?
- Q8. What are the advantages and disadvantages of using AJAX in web development?
- Q9. How does AJAX work asynchronously, and why is this beneficial for web applications?
- Q10. What are the differences between server-side scripting and client-side scripting, and what are the use cases for each?
- Q11. What are the different types of CSS (inline, internal, and external), and what are the pros and cons of each?
- Q12. How can you create and manipulate arrays in JavaScript? Provide examples of common array operations like adding, removing, and iterating over elements.
- Q13. What are the steps to establish a connection between PHP and a MySQL database? Provide a code example.
- Q 14. What is a Content Management System (CMS), and what are the benefits of using a CMS for website development? Can you name some popular CMS platforms?

Q15. How do you create a form in HTML with various input types, and how can you handle form validation both on the client side and the server side?

Q16. How can you merge cells in an HTML table both horizontally and vertically?

Q17. How do you add an event listener to an element in JavaScript?

Q18. What are event delegation and its advantages?

Q19. Describe the steps and SQL commands required to create a new database, select this database for use, list all databases on the server, list all table names within the selected database, create a new table, and insert data into this table.

Q20. Explain how to alter an existing table to add a new column, query data from a table using SELECT statements, delete specific rows based on a condition, and drop a table from the database. Include SQL examples to illustrate each operation.

Q21. How do you embed audio and video files into an HTML document using the `<audio>` and `<video>` elements? Explain the attributes and methods available for controlling playback, such as autoplay, controls, loop, and preload. Provide examples of embedding an audio file and a video file, and include a description of adding custom controls using JavaScript.

Q22. What are some common methods available for manipulating strings in JavaScript? Describe how to use `charAt()`, `concat()`, `includes()`, `indexOf()`, `slice()`, `split()`, `toLowerCase()`, `toUpperCase()`, and `trim()`. Provide examples demonstrating how each method works.

Q23. How can you use JavaScript to validate form inputs before submission? Describe how to check for required fields, validate email formats, ensure passwords meet specific criteria, and prevent form submission if validation fails. Provide code examples for each type of validation.

Q24. What is the difference between a function declaration and a function expression in JavaScript? Provide an example of each.

Q25. What are the different types of CSS selectors, and how do they work? Explain the use of element selectors, class selectors, ID selectors, attribute selectors, and pseudo-class selectors with examples.