| | Multiple Choice questions |
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| 1. | What does CSS stand for in web design? <br> a) Computer Style Sheets      b) Creative Style Solutions <br> **c) Cascading Style Sheets**      d) Centralized Styling System |
| 2. | Which of the following HTML tags is used to create a hyperlink? <br> a) <link>      **b) <a>**      c) <url>      d) <href> |
| 3. | Which programming language is primarily used for client-side scripting in web development? <br> a) Java      b) Python      **c) JavaScript**      d) Ruby |
| 4. | Which of the following is NOT a commonly used web design file format for images? <br> a) .jpg      **b) .mp3**      c) .png      d) .gif |
| 5. | What is the purpose of the "alt" attribute in HTML image tags? <br> a) It specifies the alignment of the image. <br> b) It defines the size of the image. <br> **c) It provides alternative text for the image for accessibility.** <br> d) It controls the animation of the image. |
| 6. | How can you include CSS in an HTML document? <br> a) Using the <style> tag within the <head> section <br> b) Using the <link> tag with a "stylesheet" relationship in the <head> section <br> c) Using the style attribute in HTML elements <br> **d) All of the above** |
| 7. | Which CSS property is used to control the spacing between lines of text? <br> a) text-spacing      b) line-spacing      c) letter-spacing      **d) line-height** |
| 8. | What does the "float" property in CSS do? <br> a) It controls the alignment of text within an element. <br> **b) It removes an element from the normal flow of the document and positions it to the left or right of its containing element.** <br> c) It makes an element visible or hidden. <br> d) It rotates an element clockwise or counterclockwise. |
| 9. | What does the "z-index" property in CSS control? <br> a) It controls the size of an element. <br> **b) It controls the position of an element in the stacking order.** <br> c) It controls the opacity of an element. <br> d) It controls the rotation of an element. |
| 10. | Which HTML tag is used to define a table row? <br> **a) <tr>**      b) <td>      c) <th>      d) <table> |
| 11. | What are the Fundamental Steps of Image Processing? <br> Ans. 1. Image Acquisition, 2. Image Enhancement, 3. Image Restoration, 4. Color Image Processing, 5. Wavelets and Multi-Resolution Processing, 6. Compression, 7. Morphological Processing, 8. Segmentation, 9. Representation and Description, 10. Object recognition, 11. Knowledge Baset possible to SEO a WordPress website to show it on Google's first page? |
| 12. | Differentiate between WordPress.com and WordPress.org. <br><br> WordPress.com is a hosted platform with limited customization, while WordPress.org requires self-hosting and offers full control. WordPress.com is ideal for beginners, while WordPress.org is suitable for businesses and those seeking complete customization. |

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| 13. | Why do we use Jumbotron in Bootstrap?<br><br>Jumbotrons in Bootstrap are large, responsive containers that are designed to highlight key content or messages on a web page. They are typically used to:<br><br>- Capture attention<br>- Showcase important content<br>- Provide a call to action |
| 14. | What is a Bootstrap Grid System?<br><br>Bootstrap's Grid System is a powerful tool that helps you create responsive layouts for your web pages. It uses a 12-column grid system, where each column can be combined in various ways to create different layouts. This ensures that your website looks great on all screen sizes, from small mobile devices to large desktop monitors. |
| 15. | What is Contextual classes of table in Bootstrap?<br><br>Bootstrap offers a set of contextual classes that can be applied to tables to visually indicate the state or condition of the table or its individual rows and cells. These classes help to provide visual cues to users, making it easier to understand the content and identify important information. |
| 16. | What is the purpose of the nth-child() pseudo-class in CSS3?<br>Ans: The :nth-child() CSS pseudo-class selector matches the element based on the index of the elements in the child list of its parent.<br>The selected position is determined by an integer, keyword, or expression located inside the pseudo-class's parentheses. |
| 17. | What is a pseudo-element selector?<br>Ans. A CSS pseudo-element is used to style specified parts of an element. For example, it can be used to: Style the first letter, or line, of an element. |
| 18. | How to use class selector?<br>Ans. class selector is used to select all elements which belong to a particular class attribute. In order to select the elements with a particular class, use the period (.) character specifying the class name ie., it will match the HTML element based on the contents of their class attribute |
| 19. | What is the default positioning scheme in CSS3?<br>Ans. Static is the default position for HTML elements. Elements with position: static are positioned based on the normal flow of the page. They are not affected by the top, right, bottom or left properties. |
| 20. | Which property is used to add shadows to text in CSS3?<br>Ans. The CSS text shadow property is used to add a shadow to the text. Multiple property parameters can be specified, separated by a space.<br>The property takes on a composite value of four different parts: horizontal offset, vertical offset, blur radius and shadow color. |
| 21. | What is HTML Element?<br><br>**HTML elements** are the building blocks of HTML documents. They represent different parts of a web page, such as text, images, links, headings, paragraphs, and more. Each element is defined by a **start tag**, **content**, and an **end tag**. |
| 22. | What is an IDE?<br>Ans. An integrated development environment (IDE) is a software application that helps programmers develop software code efficiently. |

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| 23. | What is a rowspan in HTML?<br>Ans. The rowspan attribute specifies the number of rows a cell should span |
| 24. | What are the basic SVG tags?<br>Ans. Inside the \<svg\> tag, we can use various elements to draw shapes:<br><br>\<circle\> for circles.<br>\<rect\> for rectangles.<br>\<line\> for straight lines.<br>\<path\> for complex shapes and paths.<br>\<text\> for text. |
| 25. | What syntax we use to include a video on the webpage for HTML Video Element?<br>Ans. To include a video on your webpage, use the following syntax:<br><br>\<video width="320" height="240" controls\><br>  \<source src="movie.mp4" type="video/mp4"\><br>  \<source src="movie.ogg" type="video/ogg"\><br>\</video\> |
| 26. | What are the plugins in HTML?<br>Ans. HTML plugins are pieces of code that we can insert into your HTML files to add features or effects. For example, you can use HTML plugins to create sliders, animations, charts, calendars, pop-ups, and more. |
| 27. | How do you handle conditional statements in JavaScript? Explain the if, else, and switch statements.<br>Conditional Statements:<br><br>Conditional statements are used to execute different code blocks based on different conditions.<br>"if" statement: Executes a block of code if a specified condition is true.<br>"else" statement: Executes a block of code if the same condition is false.<br>"switch" statement: Evaluates an expression and executes a block of code depending on matching cases. |
| 28. | How do you select and manipulate HTML elements using JavaScript?<br><br>HTML elements can be selected and manipulated using methods like getElementById(), getElementsByClassName(), querySelector(), and manipulating their properties like innerHTML, style, etc. |
| 29. | How do you handle user input validation in JavaScript?<br>User input validation involves checking user-provided data against expected criteria to ensure it meets the required format, length, or range. |
| 30. | What are the benefits of using a headless CMS (Content Management System) with a static website?<br>The benefits of using a headless CMS with a static website include separating content management from presentation, enabling content reuse across multiple channels, and providing a user-friendly interface for non-technical users to manage content. |