# COMPUTER SCIENCE CORE-11 (WEB TECHNOLOGY)

# Fill in the Blanks

2 is a fundamental protocol used for communication on the World Wide Web. Answer: HTTP (Hypertext Transfer Protocol) 3. An HTTP message is sent from a client to request information from a server. Answer: Request 4. The HTTP message is sent from a server to provide a response to a client's request. Answer: Response 5. Web clients and web servers are key components in the model of web communication. Answer: Client-Server 6. HTML stands for Answer: HyperText Markup Language 7. An HTML document consists of elements. Answer: HTML 8. The basic structure of an HTML document includes the opening and closing tags. Answer: <html> </html> 9. To create an HTML document, you start with the tag. Answer: <idoctype> 10. HTML uses tags to define the structure and content of a webpage. Answer: Markup 11. The tag is used to define headings in HTML. Answer: <h1>, <h2>, <h3>, etc. 12. To create a paragraph in HTML, you use the tag. Answer: 13. The tag is used to insert a line break in HTML. Answer:   HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: <ul> <li><ul> <li>17. Tables in HTML are created using the tag. Answer: &lt;</li> <li><ul> <li>18 are used to define rows in an HTML table. Answer: &lt;</li> <li><ul> <li>17. Tables in HTML are created using the tag. Answer: &lt;</li> <li><ul> <li>18 are used to define rows in an HTML table. Answer: &lt;</li> </ul> </li> <li>17. Tables in HTML are created using the tag. Answer: &lt;</li> <li><ul> <li>18 are used to define rows in an HTML table. Answer: &lt;</li> <li><ul> <li>19 attribute of the &lt;</li> <li><ul> <li>19 att</li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></h3></h2></h1></idoctype>
3. An HTTP message is sent from a client to request information from a server.  Answer: Request 4. The HTTP message is sent from a server to provide a response to a client's request. Answer: Response 5. Web clients and web servers are key components in the model of web communication. Answer: Client-Server 6. HTML stands for Answer: HyperText Markup Language 7. An HTML document consists of elements. Answer: HTML 8. The basic structure of an HTML document includes the opening and closing tags.  Answer: <a href="https://wintl-2"><a href="https://wintl-2">https://wintl-2"</a><a href="https://wintl-2">https://wintl-2"<a href="https://wintl-2">https://wintl-2"</a><a href="https://wintl-2">https://wintl-2"<a href="https://wintl-2">https://wintl-2"<a href="https://wintl-2">https://wintl-2"<a "="" href="https://wintl&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Answer: Request 4. The HTTP message is sent from a server to provide a response to a client's request. Answer: Response 5. Web clients and web servers are key components in the model of web communication. Answer: Client-Server 6. HTML stands for, Answer: HyperText Markup Language 7. An HTML document consists of elements. Answer: HTML 8. The basic structure of an HTML document includes the opening and closing tags. Answer: &lt;ntml&gt; &lt;/ntml&gt; &lt;/ntml&gt; &lt;/ntml&gt; 9. To create an HTML document, you start with the tag. Answer: &lt;IDOCTYPE&gt; 10. HTML uses tags to define the structure and content of a webpage. Answer: Markup 11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc. 12. To create a paragraph in HTML, you use the tag. Answer: &lt;br/&gt; 13. The tag is used to insert a line break in HTML. Answer: &lt;br/&gt; 14. HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: &lt;ul&gt; 17. Tables in HTML are created using the tag. Answer:  18 are used to define rows in an HTML table. Answer:  19. Hyperlinks are created in HTML using the tag. Answer: &lt;a&gt; (anchor) 20. The attribute of the &lt;a&gt; tag specifies the destination URL of a hyperlink. Answer: href 21. To display images in HTML, you use the tag. Answer: &lt;a&gt; (anchor) 22. The attribute of the &lt;ia&gt; tag specifies the image source file. Answer: src 23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: &lt;ia&gt; (anchor) = (anchor)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;4. The HTTP message is sent from a server to provide a response to a client's request. Answer: Response  5. Web clients and web servers are key components in the model of web communication. Answer: Client-Server  6. HTML stands for Answer: HyperText Markup Language  7. An HTML document consists of elements. Answer: HTML  8. The basic structure of an HTML document includes the opening and closing tags. Answer: &lt;html&gt; &lt;/html&gt;  9. To create an HTML document, you start with the tag. Answer: &lt;!DOCTYPE&gt;  10. HTML uses tags to define the structure and content of a webpage. Answer: Markup  11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc.  12. To create a paragraph in HTML, you use the tag. Answer: + Tag. Answer: + Tag. Answer: + Tag. and tags are enclosed in Answer: Angle brackets (&lt; &gt;)  15 tags are used for text formatting in HTML. Answer: Style  16. Lists in HTML can be created using and tags. Answer: &lt;ul&gt;   tags. Answer: &lt;ul&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;request. Answer: Response  5. Web clients and web servers are key components in the model of web communication. Answer: Client-Server  6. HTML stands for Answer: HyperText Markup Language  7. An HTML document consists of elements. Answer: HTML  8. The basic structure of an HTML document includes the opening and closing tags. Answer: &lt;html&gt; &lt;/html&gt;  9. To create an HTML document, you start with the tag. Answer: &lt;!DOCTYPE&gt;  10. HTML uses tags to define the structure and content of a webpage. Answer: Markup  11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc.  12. To create a paragraph in HTML, you use the tag. Answer: &lt;br/&gt; + The tag is used to insert a line break in HTML. Answer: &lt;br/&gt; + HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;)  15 tags are used for text formatting in HTML. Answer: Style  16. Lists in HTML can be created using and tags. Answer: &lt;ul&gt; &lt;li&gt;(unordered list)&lt;/li&gt; &lt;li&gt;7. Tables in HTML are created using the tag. Answer:   are used to define rows in an HTML table. Answer: &lt;a&gt; (anchor)&lt;/a&gt;  The attribute of the &lt;a&gt; tag specifies the destination URL of a hyperlink. Answer: href&lt;/li&gt; &lt;li&gt;21. To display images in HTML, you use the tag. Answer: &lt;a&gt; (anchor)&lt;/a&gt;  The attribute of the &lt;a&gt; tag specifies the image source file. Answer: src  Multimedia content like audio and video can be embedded in HTML using the  ag. Answer: &lt;audio&gt;, &lt;video&gt;&lt;/a&gt;  24. HTML forms are created using the tag. Answer: &lt;im&gt; t&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;5. Web clients and web servers are key components in the model of web communication. Answer: Client-Server 6. HTML stands for Answer: HyperText Markup Language 7. An HTML document consists of elements. Answer: HTML 8. The basic structure of an HTML document includes the opening and closing tags. Answer: &lt;html&gt;&lt;/html&gt; 9. To create an HTML document, you start with the tag. Answer: &lt;!DOCTYPE&gt; 10. HTML uses tags to define the structure and content of a webpage. Answer: Markup 11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc. 12. To create a paragraph in HTML, you use the tag. Answer:  13. The tag is used to insert a line break in HTML. Answer: &lt;br/&gt; 41. HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: &lt;ul&gt;             &lt;li&gt;&lt;ul&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;communication. Answer: Client-Server  6. HTML stands for Answer: HyperText Markup Language  7. An HTML document consists of elements. Answer: HTML  8. The basic structure of an HTML document includes the opening and closing tags. Answer: &lt;html&gt; &lt;/html&gt;  9. To create an HTML document, you start with the tag. Answer: &lt;!DOCTYPE&gt;  10. HTML uses tags to define the structure and content of a webpage. Answer: Markup  11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc.  12. To create a paragraph in HTML, you use the tag. Answer:  13. The tag is used to insert a line break in HTML. Answer: &lt;br/&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;6. HTML stands for Answer: HyperText Markup Language 7. An HTML document consists of elements. Answer: HTML 8. The basic structure of an HTML document includes the opening and closing tags. Answer: &lt;html&gt; &lt;/html&gt; 9. To create an HTML document, you start with the tag. Answer: &lt;!DOCTYPE&gt; 10. HTML uses tags to define the structure and content of a webpage. Answer: Markup 11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc. 12. To create a paragraph in HTML, you use the tag. Answer: 13. The tag is used to insert a line break in HTML. Answer: &lt;br/&gt; + HTML tags are enclosed in Answer. Angle brackets (&lt; &gt;) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: &lt;ul&gt; &lt;li&gt;(unordered list), &lt;ol&gt; &lt;li&gt;(ordered list)&lt;/li&gt; &lt;li&gt;17. Tables in HTML are created using the tag. Answer:  &lt;li&gt;18 are used to define rows in an HTML table. Answer:  &lt;li&gt;19. Hyperlinks are created in HTML using the tag. Answer: &lt;a&gt; (anchor)&lt;/a&gt;&lt;/li&gt; &lt;li&gt;10. The attribute of the &lt;a&gt; tag specifies the destination URL of a hyperlink. Answer: href&lt;/li&gt; &lt;li&gt;21. To display images in HTML, you use the tag. Answer: &lt;img&gt;&lt;/li&gt; &lt;li&gt;22. The attribute of the &lt;img&gt; tag specifies the image source file. Answer: src&lt;/li&gt; &lt;li&gt;23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: &lt;imp&gt;&lt;/li&gt; &lt;li&gt;24. HTML forms are created using the tag. Answer: &lt;input&gt;&lt;/li&gt; &lt;li&gt;25. Input fields in HTML forms are defined using the tag. Answer: &lt;input&gt;&lt;/li&gt; &lt;li&gt;16. The attribute of the &lt;input&gt; tag specifies the type of input field (e.g., text,&lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;7. An HTML document consists of elements. Answer: HTML 8. The basic structure of an HTML document includes the opening and closing tags. Answer: &lt;html&gt; &lt;/html&gt; 9. To create an HTML document, you start with the tag. Answer: &lt;!DOCTYPE&gt; 10. HTML uses tags to define the structure and content of a webpage. Answer: Markup 11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc. 12. To create a paragraph in HTML, you use the tag. Answer: 13. The tag is used to insert a line break in HTML. Answer: &lt;br/&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;8. The basic structure of an HTML document includes the opening and closing tags. Answer: &lt;html&gt; &lt;/html&gt; 9. To create an HTML document, you start with the tag. Answer: &lt;!DOCTYPE&gt; 10. HTML uses tags to define the structure and content of a webpage. Answer: Markup 11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc. 12. To create a paragraph in HTML, you use the tag. Answer:  13. The tag is used to insert a line break in HTML. Answer: &lt;br/&gt; HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: &lt;ul&gt; (unordered list), &lt;lol&gt; (ordered list) 17. Tables in HTML are created using the tag. Answer:  are used to define rows in an HTML table. Answer:  (18 are used to define rows in an HTML table. Answer: &lt;a&gt; (anchor) 20. The attribute of the &lt;a&gt; tag specifies the destination URL of a hyperlink. Answer: href 21. To display images in HTML, you use the tag. Answer: &lt;img&gt; 17. The attribute of the &lt;img&gt; tag specifies the image source file. Answer: src 23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: &lt;a href=" https:="" www.numentorecommons.org="">https://www.numentorecommons.org/</a> attribute of the <img/> tag. Answer: <form> 18 attribute of the <img/> tag. Answ</form></form></form></form></form></form></form></form></form></form></form></form></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>
Answer: <a 10.1001="" doi.org="" href="https://www.ncb&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;9. To create an HTML document, you start with the tag. Answer: &lt;!DOCTYPE&gt; 10. HTML uses tags to define the structure and content of a webpage. Answer:  Markup 11. The tag is used to define headings in HTML. Answer: &lt;h1&gt;, &lt;h2&gt;, &lt;h3&gt;, etc.  12. To create a paragraph in HTML, you use the tag. Answer:  13. The tag is used to insert a line break in HTML. Answer: &lt;br/&gt; 14. HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: &lt;ul&gt; 17. Tables in HTML are created using the tag. Answer:  18 are used to define rows in an HTML table. Answer:  19. Hyperlinks are created in HTML using the tag. Answer: &lt;a&gt; (anchor)  19. Hyperlinks are created in HTML using the tag. Answer: &lt;a&gt; (anchor)  10. The attribute of the &lt;a&gt; tag specifies the destination URL of a hyperlink. Answer: href  21. To display images in HTML, you use the tag. Answer: &lt;img&gt; 22. The attribute of the &lt;img&gt; tag specifies the image source file. Answer: src  23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: &lt;a href=" https:="" journal-number-10.1001="" journal-number-10.<="" td=""></a>
10. HTML uses tags to define the structure and content of a webpage. Answer:  Markup  11. The tag is used to define headings in HTML. Answer: <h1>, <h2>, <h3>, etc.  12. To create a paragraph in HTML, you use the tag. Answer:  13. The tag is used to insert a line break in HTML. Answer:   14. HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;)  15 tags are used for text formatting in HTML. Answer: Style  16. Lists in HTML can be created using and tags. Answer: <ul> (unordered list), <ol> (ordered list)  17. Tables in HTML are created using the tag. Answer:      are used to define rows in an HTML table. Answer:  (table row)  19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)  10. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href  21. To display images in HTML, you use the tag. Answer: <img/>  22. The attribute of the <img/> tag specifies the image source file. Answer: src  23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a href="https://www.nusethe tag.">https://www.nusethe tag. Answer: <img/>  24. HTML forms are created using the tag. Answer: <imp>  15. Input fields in HTML forms are defined using the tag. Answer: <imput>  16. The attribute of the <imput> tag specifies the type of input field (e.g., text,</imput></imput></imp></a></a></a></ol></ul></h3></h2></h1>
Markup  11. The tag is used to define headings in HTML. Answer: <h1>, <h2>, <h3>, etc.  12. To create a paragraph in HTML, you use the tag. Answer:  13. The tag is used to insert a line break in HTML. Answer:   14. HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;)  15 tags are used for text formatting in HTML. Answer: Style  16. Lists in HTML can be created using and tags. Answer: <ul> (unordered list), <ol> (ordered list)  17. Tables in HTML are created using the tag. Answer:  (ables in HTML are created using the tag. Answer:  (table row)  19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)  10. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href  11. To display images in HTML, you use the tag. Answer: <img/>  12. To display images in HTML, you use the tag. Answer: <img/>  13. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a href="mailto:aution">aution</a> attribute of the <img/> tag. Answer: <img/> tag. Answer: <img/> tag. Answer: <a href="mailto:aution">aution</a> attribute of the <img/> tag. Answer: <img< td=""></img<></a></a></ol></ul></h3></h2></h1>
The tag is used to define headings in HTML. Answer: <h1>, <h2>, <h3>, etc.  To create a paragraph in HTML, you use the tag. Answer:  The tag is used to insert a line break in HTML. Answer:   HTML tags are enclosed in Answer: Angle brackets (&lt; &gt;)  tags are used for text formatting in HTML. Answer: Style  Lists in HTML can be created using and tags. Answer: <ul> (unordered list), <ol> (ordered list)  Tables in HTML are created using the tag. Answer:  (table row)   Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)</a>  The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href   To display images in HTML, you use the tag. Answer: <img/> The attribute of the <img/> tag specifies the image source file. Answer: src  Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a <a="" here="" href="https://www.milton.org/lines/">https://www.milton.org/milton.org/</a>  HTML forms are created using the tag. Answer: <img/> HTML forms are created using the tag. Answer: <img/> The attribute of the <img/> tag. Answer: <img/> Answer: <a href="https://www.milton.org/lines/">https://www.milton.org/lines/</a>  HTML forms are created using the tag. Answer: <img/> Input fields in HTML forms are defined using the tag. Answer: <imput> The attribute of the <imput> tag. Answer: <imput> of input field (e.g., text,)  The attribute of the <imput> tag. Answer: <imput> of input field (e.g., text,)</imput></imput></imput></imput></imput></a></ol></ul></h3></h2></h1>
12. To create a paragraph in HTML, you use the tag. Answer:  13. The tag is used to insert a line break in HTML. Answer: 14. HTML tags are enclosed in Answer: Angle brackets (< >) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: <ul>         (unordered list), <ol>         (ordered list) 17. Tables in HTML are created using the tag. Answer:  18 are used to define rows in an HTML table. Answer:          (table row) 19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor) 10. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href 11. To display images in HTML, you use the tag. Answer: <img/> 12. The attribute of the <img/> tag specifies the image source file. Answer: src 13. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a href="autribute">autribute</a> ontent like audio and video can be embedded in HTML using the tag. Answer: <a href="autribute">autribute</a> ontent like audio and video can be embedded in HTML using the tag. Answer: <a href="autribute">autribute</a> ontent like audio and video can be embedded in HTML using the tag. Answer: <a href="autribute">autribute</a> ontent like audio and video can be embedded in HTML using the tag. Answer: <a href="autribute">autribute</a> ontent like audio and video can be embedded in HTML using the tag. Answer: <a href="autribute">autribute</a> ontent like audio and video can be embedded in HTML using the tag. Answer: <a href="autribute">autribute</a> ontent like audio and video can be embedded in HTML of the tag. Answer: <a href="autribute">autribute</a> on the tag. Answer: <a href="autribute">autribute</a> on the tag. Answer: <a href="autribute">autribute</a> on the tag. Answer: <a href="autribute">autribute</a> of the tag. Answer: <a href="autribute">a</a></a></a></ol></ul>
13. The tag is used to insert a line break in HTML. Answer: 14. HTML tags are enclosed in Answer: Angle brackets (< >) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: <ul>         (unordered list), <ol>         (ordered list) 17. Tables in HTML are created using the tag. Answer:  18 are used to define rows in an HTML table. Answer:          (table row), 19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor), attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href 17. To display images in HTML, you use the tag. Answer: <img/> 18 attribute of the <a> tag specifies the image source file. Answer: <a> (anchor), attribute of the <a> tag specifies the image source file. Answer: <a> (anchor), attribute of the <a> tag specifies the image source file. Answer: <a> (anchor), attribute of the <a> tag specifies the image source file. Answer: <a> (anchor), attribute of the <a> tag specifies the image source file. Answer: <a> (anchor), attribute of the <a> tag specifies the image source file. Answer: <a> (anchor), attribute of the <a> tag specifies the image source file. Answer: <a> (anchor), answer: &lt;</a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></ol></ul>
14. HTML tags are enclosed in Answer: Angle brackets ( < >) 15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: <ul>         (unordered list), <ol>         (ordered list) 17. Tables in HTML are created using the tag. Answer:  18 are used to define rows in an HTML table. Answer:          (table row) 19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor) 10. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href 11. To display images in HTML, you use the tag. Answer: <img/> 12. The attribute of the <img/> tag specifies the image source file. Answer: src 13. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a <a="" <form="" answer:="" are="" created="" display="" forms="" html="" images="" in="" tag.="" the="" using=""> 14. HTML forms are created using the tag. Answer: <form> 15. Input fields in HTML forms are defined using the tag. Answer: <input/> 16. The attribute of the <input/> tag specifies the type of input field (e.g., text, )</form></a></a></a></ol></ul>
15 tags are used for text formatting in HTML. Answer: Style 16. Lists in HTML can be created using and tags. Answer: <ul> (unordered list), <ol> (ordered list) 17. Tables in HTML are created using the tag. Answer:  18 are used to define rows in an HTML table. Answer:  (table row) 19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)</a> 20. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href 21. To display images in HTML, you use the tag. Answer: <img/> 22. The attribute of the <img/> tag specifies the image source file. Answer: src 23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a <input="" answer:="" defined="" tag.="" the="" using=""> 24. HTML forms are created using the tag. Answer: <input/> 25. Input fields in HTML forms are defined using the tag. Answer: <input/> 26. The attribute of the <input/> tag specifies the type of input field (e.g., text,</a></a></ol></ul>
16. Lists in HTML can be created using and tags. Answer: <ul> (unordered list), <ol> (ordered list) <li>17. Tables in HTML are created using the tag. Answer: </li> <li>18 are used to define rows in an HTML table. Answer:  (table row)</li> <li>19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)</a></li> <li>20. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href</a></li> <li>21. To display images in HTML, you use the tag. Answer: <img/></li> <li>22. The attribute of the <img/> tag specifies the image source file. Answer: src</li> <li>23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <audio>, <video></video></audio></li> <li>24. HTML forms are created using the tag. Answer: <form></form></li> <li>25. Input fields in HTML forms are defined using the tag. Answer: <input/></li> <li>26. The attribute of the <input/> tag specifies the type of input field (e.g., text,</li> </ol></ul>
list), <ol> (ordered list)  17. Tables in HTML are created using the tag. Answer:  18 are used to define rows in an HTML table. Answer:  (table row)  19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)  20. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href  21. To display images in HTML, you use the tag. Answer: <img/> 22. The attribute of the <img/> tag specifies the image source file. Answer: src  23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <audio>, <video>  24. HTML forms are created using the tag. Answer: <form> 25. Input fields in HTML forms are defined using the tag. Answer: <input/> 26. The attribute of the <input/> tag specifies the type of input field (e.g., text,</form></video></audio></a></a></ol>
<ul> <li>Tables in HTML are created using the tag. Answer: </li> <li>are used to define rows in an HTML table. Answer:  <li>Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)</a></li> <li>The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href</a></li> <li>To display images in HTML, you use the tag. Answer: <img/></li> <li>The attribute of the <img/> tag specifies the image source file. Answer: src</li> <li>Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a href="audio">audio</a>, <video></video></li> <li>HTML forms are created using the tag. Answer: <form></form></li> <li>Input fields in HTML forms are defined using the tag. Answer: <input/></li> <li>The attribute of the <input/> tag specifies the type of input field (e.g., text,</li> </li></ul>
18 are used to define rows in an HTML table. Answer:  19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)</a> 20. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href 21. To display images in HTML, you use the tag. Answer: <img/> 22. The attribute of the <img/> tag specifies the image source file. Answer: src 23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <audio>, <video> 24. HTML forms are created using the tag. Answer: <form> 25. Input fields in HTML forms are defined using the tag. Answer: <input/> 26. The attribute of the <input/> tag specifies the type of input field (e.g., text,</form></video></audio></a>
<ul> <li>19. Hyperlinks are created in HTML using the tag. Answer: <a> (anchor)</a></li> <li>20. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href</a></li> <li>21. To display images in HTML, you use the tag. Answer: <img/></li> <li>22. The attribute of the <img/> tag specifies the image source file. Answer: src</li> <li>23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a <<="" <a="" dispart="" td=""></a></li></ul>
<ul> <li>20. The attribute of the <a> tag specifies the destination URL of a hyperlink. Answer: href</a></li> <li>21. To display images in HTML, you use the tag. Answer: <img/></li> <li>22. The attribute of the <img/> tag specifies the image source file. Answer: src</li> <li>23. Multimedia content like audio and video can be embedded in HTML using the tag. Answer: <a href="audio"><a href="audio"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></li></ul>

32.	CSS is used for web page elements. Answer: Styling or formatting
33.	A CSS defines the styles to be applied to HTML elements. Answer: Style sheet
34.	CSS allows you to control the of HTML elements. Answer: Presentation
35.	is the process of applying multiple styles to an element, with styles from different
source	s cascading down. Answer: Cascading
36.	To create an external style sheet, you save it with a file extension. Answer: .css
37.	CSS properties define the of HTML elements. Answer: Style or appearance
	The CSS property sets the background color of an element. Answer: background-
color	
	The CSS property is used to format text, including color, font size, and font
	Answer: font
•	The property in CSS determines the space between lines of text. Answer: line-
height	····
_	CSS can be used to style elements like <div> and . Answer: Block</div>
	HTML elements include headings, paragraphs, and lists. Answer: Block
	CSS can be used to control the spacing between HTML elements using
	ties. Answer: Margin
	The property in CSS sets the width of the border around an element. Answer:
	r-width
	Padding inside an element is controlled using the property in CSS. Answer:
paddir	
•	The property in CSS controls the space between the outer edge of an element
	rrounding elements. Answer: margin
	CSS allows you to specify colors using names or hexadecimal values. Answer:
Color	cos anows you to specify colors using harnes of hexadecimal values. Answer.
	Grouping CSS selectors allows you to apply the same styles to elements. Answer:
Multip	
	CSS selectors are used to target specific elements with a unique identifier.
Answe	
	selectors in CSS allow you to apply styles to multiple elements with the same
	Answer: Class
	The CSS model describes how elements are displayed on a webpage. Answer:
Box	The C33 Model describes now elements are displayed on a webpage. Answer.
	The CSS property sets the style of the border around an element. Answer:
border	
	The property in CSS defines the distance between the content and the border.
	r: padding
	The property in CSS sets the space between elements. Answer: margin
	CSS property in essisting space between clements. Answer: Midth
	The CSS property controls how an element is displayed. Answer: Display
	The property in CSS specifies the position of an element in relation to its
	ning element. Answer: Positioning
58.	elements in CSS are removed from the normal flow of the page and can float left
	it. Answer: Floating
_	The CSS property aligns text within an element. Answer: text-align
	CSS classes can be applied to elements based on user interactions, such as
	ng over a link. Answer: Pseudo-class
	JavaScript is aside scripting language. Answer: Client
J 1.	sarasanpens a side sempting language. Alliswer. ellerte

62. behav	JavaScript is often used to add and interactivity to web pages. Answer: Dynamic		
63. In JavaScript, a is used to store data. Answer: Variable			
64.	JavaScript variables can be declared using the keyword. Answer: var		
65.	A JavaScript is a block of reusable code. Answer: Function		
66.	You can call a JavaScript function using Answer: Function name followed by		
parent			
67.	are used in JavaScript to make decisions based on conditions. Answer:		
	tional statements		
68.	The statement in JavaScript is used for basic decision making. Answer: if		
	A loop in JavaScript repeats a block of code while a condition is true. Answer:		
while	A 100p in Javascript repeats a block of code write a condition is tide. Answer.		
	The loop in JavaScript repeats a block of code a specific number of times.		
Answe			
71.	JavaScript uses to work with objects, which are collections of properties and		
	ods. Answer: Dot notation		
72.	JavaScript's built-in objects include and Answer: Math, Date		
73.	The Object Model (DOM) is a programming interface for web documents.		
	er: Document		
74.	The DOM allows JavaScript to access and manipulate content. Answer: HTML		
75.	In JavaScript, you can access an HTML element using its Answer: ID		
76.	JavaScript can be used to validate input on web forms. Answer: User		
77.	JavaScript's object is commonly used to work with user input and form data.		
	er: Document		
78.	DHTML stands for HTML. Answer: Dynamic		
79.	DHTML combines HTML,, JavaScript, events, and buttons to create dynamic web		
	. Answer: CSS		
80.	In DHTML, are used to trigger JavaScript functions. Answer: Events		
	JavaScript can be used to and web page elements in real-time. Answer:		
Show,			
82.	To control your browser using JavaScript, you can manipulate the and		
	er: Window, Document		
	You can open a new browser using JavaScript. Answer: Window		
	JavaScript can be used to create pop-ups on web pages. Answer: Alert		
	is a built-in JavaScript object that represents a web browser's history. Answer:		
Histor			
86.	JavaScript can be used to change the of a web page without loading a new page.		
	er: Content		
	is used to add dynamic behavior to web forms and pages. Answer: JavaScript		
	In JavaScript, you can create animations by changing CSS properties over time.		
	er: Smooth		
	can be used to prevent a web form from submitting until it's validated. Answer:		
JavaSc	•		
90.	JavaScript can be used to create interactive that respond to user actions. Answer:		
Buttons			
91.	PHP is aside scripting language. Answer: Server		
92.	PHP stands for Hypertext Preprocessor. Answer: PHP: Hypertext Preprocessor		
93.	PHP scripts are executed on the Answer: Server		
94.	In PHP, a is used to store data. Answer: Variable		

95.	Variables in PHP start with a symbol. Answer: Dollar (\$) sign	
96.	PHP supports various data types, including and Answer: Integers, Strings	
97.	The operator in PHP concatenates two strings. Answer: Dot (.)	
98.	PHP expressions are combinations of,, and Answer: Values,	
Opera	ators, Variables	
99.	in PHP are values that do not change during script execution. Answer: Constants	
100.	The statement in PHP is used for decision-making. Answer: if	
101.	Aloop in PHP executes a block of code while a condition is true. Answer: while	
102.	PHP's statement allows you to perform actions a specific number of times.	
Answe		
103.	In PHP, you can create strings using or quotes. Answer: Single ('), Double	
(")	J J 1	
104.	To access a character in a string, you use notation. Answer: Array	
105.	The PHP function is used to find the position of a substring in a string. Answer:	
strpos	·	
	You can replace occurrences of a substring in a string using Answer: str_replace	
107.	String in PHP is the process of changing the appearance of text. Answer:	
Forma		
	are used in PHP to store multiple values in a single variable. Answer: Arrays	
	You can access elements in a PHP array using Answer: Indexes	
110.	PHP supports arrays, which contain arrays as elements. Answer: Multidimensional	
111.	The function in PHP is used to establish a connection to a database. Answer:	
	i_connect	
112.		
113.	To fetch a row of data from a database in PHP, you can use the function. Answer:	
	i_fetch_assoc	
	PHP's function is used to insert data into a database. Answer: mysqli_insert_id	
	In PHP, the statement is used to close a database connection. Answer:	
	i_close	
	PHP allows you to work with various databases, such as and Answer:	
	L, PostgreSQL	
•	The operator in PHP checks if two values are equal in both value and type.	
	er: === (strict equality)	
	PHP provides the operator to check if a value exists within an array. Answer:	
in_arr		
	is a widely used PHP framework for web development. Answer: Laravel	
	·	
	PHP are predefined variables in PHP that are always accessible. Answer:	
Superglobals		
Short	: Type	
	Essentials: Clients, Servers, and Communication	
Clients, Servers, and Basic Internet Protocols		
1.	What is a client in the context of the internet?	
	Answer: A client is a device or software application that requests services or	
	resources from a server.	
2.	What is a server in the context of the internet?	
	Answer: A server is a computer or software system that provides services or	
	resources to clients over a network.	

- 3. Name a fundamental internet protocol used for transferring web pages.
  - **Answer:** HTTP (Hypertext Transfer Protocol).
- 4. What does HTTP stand for?
  - **Answer:** Hypertext Transfer Protocol.

The WWW, HTTP Request-Response, Web Clients, and Web Servers

- 5. What does WWW stand for?
  - **Answer:** World Wide Web.
- 6. Explain the concept of an HTTP request message.
  - **Answer:** An HTTP request message is sent by a client to request a resource (e.g., a web page) from a web server.
- 7. What is an HTTP response message?
  - **Answer:** An HTTP response message is sent by a web server to provide the requested resource to the client.
- 8. Name a popular web client.
  - **Answer:** Web browsers like Chrome, Firefox, and Safari are popular web clients.
- 9. What software typically runs on a web server to handle HTTP requests?
  - **Answer:** Web server software like Apache, Nginx, or Microsoft IIS.

Introduction to HTML

- 10. What does HTML stand for?
  - Answer: Hypertext Markup Language.
- 11. What is the basic structure of an HTML document?
  - Answer: It consists of opening and closing <html>, <head>, and <body> tags.
- 12. How do you create an HTML document?
  - **Answer:** Create a plain text file and save it with the ".html" extension.
- 13. What are markup tags in HTML?
  - **Answer:** Markup tags are used to define elements and structure within an HTML document.
- 14. How can you create a heading in HTML?
  - **Answer:** Using the <h1> to <h6> tags, where <h1> is the highest level of heading.
- 15. How do you create paragraphs in HTML?
  - **Answer:** Use the tag to define paragraphs.
- 16. What HTML tag is used to create line breaks?
  - Answer: <br> tag.
- 17. What is the purpose of HTML comments?
  - **Answer:** HTML comments are used to provide notes or explanations in the code that are not displayed in the browser.
- 18. How can you add a hyperlink in HTML?
  - **Answer:** Use the <a> (anchor) tag with the href attribute.
- 19. What HTML element is used to display images?
  - Answer: The <img> element.
- 20. How can you embed multimedia content like videos or audio in HTML?
  - **Answer:** Using the <video> and <audio> elements, respectively.
- 21. What HTML element is used to create forms?
  - **Answer:** The <form> element.
- 22. How do you create form controls like text fields, checkboxes, and radio buttons?
  - **Answer:** Using various form input elements like <input>, <textarea>, <select>, and others.

#### **Introduction to Cascading Style Sheets (CSS)** Concepts of CSS and Creating Stylesheets 23. What does CSS stand for? **Answer:** Cascading Style Sheets. 24. What is the main purpose of CSS? **Answer:** CSS is used for controlling the presentation and layout of web pages. 25. How do you create a CSS stylesheet for an HTML document? **Answer:** Create a separate ".css" file and link it to the HTML document using the taq. 26. What are CSS properties? **Answer:** CSS properties are attributes that define how elements should be styled. 27. What is the "cascading" part of CSS? **Answer:** It refers to the way multiple CSS rules can be applied to the same element, and the browser determines which one takes precedence. **CSS Styling** 28. How can you change the background color of an element using CSS? **Answer:** Use the background-color property. 29. What CSS property is used to control text formatting, such as font size and color? **Answer:** The color property. 30. How do you specify font styles and sizes for text using CSS? **Answer:** Use the font-family and font-size properties. 31. What is the purpose of the CSS font-weight property? **Answer:** It controls the thickness or boldness of text. 32. How can you set a border around an element in CSS? Answer: Use properties like border, border-width, and border-color. 33. What CSS property controls the spacing inside an element's border? **Answer:** The padding property. 34. How do you control the space outside an element's border using CSS? **Answer:** Use the margin property. 35. What is the CSS color property used for? **Answer:** It sets the text color. Working with Block Elements and Objects What is a block-level element in HTML and CSS? **Answer:** A block-level element creates a new "block" formatting context, typically starting on a new line. 37. What is an inline element in HTML and CSS? Answer: An inline element does not start on a new line and only takes up as much width as necessary. 38. How can you make an element float to the left or right using CSS?

- Answer: Use the float property.
- 39. What is the purpose of the CSS display property?
  - **Answer:** It controls how an element is displayed, such as block, inline, or none.
- 40. How can you center an element horizontally using CSS?
  - Answer: Use the margin property with auto values.

#### CSS ID and Class

41. What is the difference between an ID and a class in CSS?

- **Answer:** An ID is unique to one element, while a class can be applied to multiple elements.
- 42. How do you select an element by its ID in CSS?
  - **Answer:** Use the # symbol followed by the ID name (e.g., #myElement).
- 43. How do you select elements by their class in CSS?
  - **Answer:** Use the . symbol followed by the class name (e.g., .myClass).
- 44. Can an element have multiple classes?
  - **Answer:** Yes, an element can have multiple classes separated by spaces (e.g., class="class1 class2").

#### **Box Model**

- 45. What is the CSS Box Model?
  - **Answer:** The CSS Box Model describes how elements are rendered as rectangular boxes with content, padding, border, and margin.
- 46. How can you set the border properties of an element using CSS?
  - Answer: Use properties like border-style, border-width, and border-color.
- 47. What is the purpose of the CSS padding property?
  - **Answer:** It controls the space between an element's content and its border.
- 48. How do you specify the space outside an element using the CSS margin property?
  - **Answer:** The margin property controls the space outside an element's border.
- 49. Explain the difference between margin and padding in the CSS Box Model.
  - **Answer:** Margin controls the space outside an element, while padding controls the space between an element's content and its border.

## CSS Color, Grouping, Dimensions, Display, Positioning, Floating

- 50. How can you specify colors in CSS?
  - **Answer:** You can specify colors using color names, hexadecimal values, RGB values, or HSL values.
- 51. What is the purpose of CSS grouping?
  - **Answer:** CSS grouping allows you to apply the same styles to multiple elements.
- 52. How do you change the dimensions of an element using CSS?
  - Answer: Use properties like width and height.
- 53. What does the CSS display property control?
  - **Answer:** It determines how an element is displayed, such as block, inline, inline-block, or none.
- 54. How can you position an element in CSS?
  - **Answer:** Use the position property with values like static, relative, absolute, or fixed.
- 55. What is the purpose of the CSS **float** property?
  - **Answer:** It allows an element to be taken out of the normal flow and positioned to the left or right of its container.

#### Pseudo-class, Navigation Bar, Image Sprites

- 56. What is a CSS pseudo-class?
  - **Answer:** A pseudo-class is used to define a special state or behavior of an element, such as :hover for mouseover effects.
- 57. How can you create a navigation bar in HTML and CSS?
  - Answer: Create a list of links ( and elements) and style them using CSS.
- 58. What are image sprites in web development?

• **Answer:** Image sprites are a technique where multiple images are combined into a single image, and CSS is used to display specific parts of the image for different elements.

## **JavaScript**

Client-Side Scripting and JavaScript Basics

- 59. What is JavaScript?
  - **Answer:** JavaScript is a scripting language used for adding interactivity and dynamic behavior to web pages.
- 60. Where is JavaScript typically executed, on the client or server?
  - **Answer:** JavaScript is executed on the client-side, in the user's web browser.
- 61. How do you declare a variable in JavaScript?
  - **Answer:** Use the var, let, or const keyword followed by the variable name.
- 62. What is the purpose of a JavaScript function?
  - **Answer:** A function is a reusable block of code that performs a specific task.
- 63. How do you create a conditional statement in JavaScript?
  - Answer: Use if, else if, and else statements to create conditions.
- 64. What is a loop in JavaScript?
  - **Answer:** A loop is used to repeatedly execute a block of code while a condition is true.
- 65. What is the difference between == and === in JavaScript?
  - **Answer:** == tests for equality with type coercion, while === tests for strict equality without type coercion.

JavaScript Objects, the DOM, and Forms

- 66. What is an object in JavaScript?
  - **Answer:** An object is a collection of key-value pairs, where each key is a property name and each value can be any data type.
- 67. What does the DOM stand for in web development?
  - **Answer:** DOM stands for Document Object Model and represents the structured content of a web page as objects that can be manipulated using JavaScript.
- 68. How can you access and modify HTML elements using JavaScript?
  - **Answer:** You can use JavaScript to access and modify HTML elements by selecting them through the DOM.
- 69. What is event handling in JavaScript?
  - **Answer:** Event handling is the process of writing code to respond to user interactions with a web page, such as clicks and keystrokes.
- 70. How do you validate a form using JavaScript?
  - **Answer:** You can use JavaScript to validate form input by checking user input against specified criteria.

# DHTML (Dynamic HTML)

Combining HTML, CSS, JavaScript, Events, and Buttons

- 71. What does DHTML stand for?
  - Answer: Dynamic HTML.
- 72. How does DHTML combine HTML, CSS, and JavaScript?
  - **Answer:** DHTML combines these technologies to create interactive and dynamic web content.
- 73. What is an event in the context of DHTML?
  - **Answer:** An event is an action or occurrence, such as a mouse click or keyboard input, that can trigger a JavaScript function.

- 74. How can you create buttons with JavaScript actions in HTML?
  - **Answer:** You can create buttons by using the **\leftautton>** element and associating JavaScript functions with their **onclick** event.
- 75. Give an example of an interactive DHTML feature.
  - **Answer:** An interactive DHTML feature could be a button that toggles the visibility of a hidden element when clicked.
- 76. How do you use JavaScript to change the content of an HTML element dynamically?
  - **Answer:** You can use JavaScript to select an HTML element and modify its innerHTML or textContent property.

#### **PHP**

Starting with Server-Side Scripting and PHP Basics

- 77. What is PHP?
  - **Answer:** PHP is a server-side scripting language used for building dynamic web applications.
- 78. Where is PHP code executed, on the client or server?
  - Answer: PHP code is executed on the server-side.
- 79. How do you declare variables in PHP?
  - **Answer:** Variables in PHP are declared using the \$ symbol followed by the variable name (e.g., \$variableName).
- 80. What are the basic data types in PHP?
  - **Answer:** Basic data types in PHP include integers, floats, strings, booleans, arrays, and objects.
- 81. What is an operator in PHP?
  - **Answer:** Operators in PHP are used to perform operations on variables and values, such as addition (+) or comparison (==).
- 82. How do you create conditional statements in PHP?
  - **Answer:** Use if, else if, and else statements to create conditions in PHP.
- 83. What is the purpose of loops in PHP?
  - **Answer:** Loops in PHP are used to repeat a block of code multiple times based on a condition.
- 84. How can you make decisions in PHP based on the value of a variable?
  - **Answer:** Use if and switch statements to make decisions based on variable values.

# **Strings and Arrays in PHP**

- 85. How do you create strings in PHP?
  - **Answer:** Strings in PHP can be created by enclosing text in single ( ) or double ( ) quotes.
- 86. What is the difference between single-quoted and double-quoted strings in PHP?
  - **Answer:** Single-quoted strings are literal and do not interpret variables or special characters, while double-quoted strings do.
- 87. How can you access characters in a string in PHP?
  - **Answer:** You can access characters in a string using square brackets and an index, e.g., \$str[0] to get the first character.
- 88. What is an array in PHP?
  - **Answer:** An array in PHP is a collection of values, each identified by a unique key or index.
- 89. How do you create an indexed array in PHP?

- **Answer:** You can create an indexed array using the array() constructor or shorthand [] notation.
- 90. What is a multidimensional array in PHP?
  - **Answer:** A multidimensional array is an array of arrays, allowing you to create a more complex data structure.
- 91. How do you access values in a multidimensional array in PHP?
  - **Answer:** Use multiple sets of square brackets to access values by their respective indices.

#### **PHP** with Databases

- 92. How can PHP be used with databases?
  - **Answer:** PHP can connect to databases using database-specific extensions (e.g., MySQLi or PDO) to perform database operations.
- 93. What is SQL, and how is it related to PHP?
  - **Answer:** SQL (Structured Query Language) is a language used for managing relational databases. PHP can be used to send SQL queries to a database and retrieve or modify data.
- 94. How do you connect to a MySQL database using PHP?
  - **Answer:** You can use the mysqli\_connect() function to establish a connection to a MySQL database.
- 95. What is an SQL injection vulnerability, and how can it be prevented in PHP?
  - **Answer:** An SQL injection vulnerability occurs when malicious SQL code is injected into user input. To prevent it, use prepared statements and parameterized queries.
- 96. How can you retrieve data from a MySQL database in PHP?
  - **Answer:** Use SQL SELECT statements with PHP functions like mysqli\_query() to retrieve data from a MySQL database.
- 97. How do you insert data into a MySQL database using PHP?
  - **Answer:** Use SQL INSERT statements with PHP functions like mysqli\_query() to insert data into a MySQL database.
- 98. What is the purpose of the PHP mysqli fetch assoc() function?
  - **Answer:** It retrieves a row from a result set as an associative array, making it easier to access data by column names.
- 99. How can you update data in a MySQL database using PHP?
  - **Answer:** Use SQL UPDATE statements with PHP functions like mysqli\_query() to update data in a MySQL database.
- 100. How do you close a database connection in PHP?
  - **Answer:** Use the mysqli\_close() function to close the connection to a MySQL database in PHP.

#### **Long Type**

# Web Essentials: Clients, Servers, and Communication

- 1. What are the fundamental components of the Internet architecture, including clients and servers?
- 2. Explain the role of Internet protocols in enabling communication between clients and servers.
- 3. Describe the basic functions of the World Wide Web (WWW) in the context of the Internet.
- 4. What is the purpose of HTTP (Hypertext Transfer Protocol) in web communication?

- 5. Differentiate between an HTTP request message and an HTTP response message.
- 6. Provide a detailed overview of the structure and content of an HTTP request message.
- 7. Explain the key components of an HTTP response message and their significance.
- 8. Compare and contrast web clients and web servers in the context of web communication.
- 9. Provide a case study highlighting the interaction between web clients and web servers in a specific scenario.
- 10. How is HTML (Hypertext Markup Language) related to web essentials, and why is it important?

### **Introduction to HTML**

- 11. What is HTML, and how does it contribute to the structure of web documents?
- 12. Describe the concept of HTML domains and their relevance in web development.
- 13. Walk through the basic structure of an HTML document and its essential elements.
- 14. What are markup tags in HTML, and how are they used to structure content?
- 15. Explain the purpose and usage of heading tags in HTML.
- 16. How can you create paragraphs and line breaks in an HTML document?
- 17. Provide examples of HTML tags commonly used for text formatting.
- 18. Discuss the various types of lists that can be created using HTML.
- 19. Explain how tables are created and formatted in HTML documents.
- 20. What is the role of frames in HTML, and how are they implemented in web pages?

## Working with Hyperlinks, Images, and Multimedia in HTML

- 21. How do you create hyperlinks in HTML, and what are their functionalities?
- 22. Explain the process of embedding images and multimedia elements in HTML documents.
- 23. Discuss the attributes and considerations related to image tags in HTML.
- 24. Provide examples of HTML tags for embedding audio and video content.
- 25. What are forms in HTML, and how can you create and customize form controls?
- 26. Describe the purpose of various form input types, such as text fields, checkboxes, and radio buttons.
- 27. Explain the role of form controls like buttons and submit in HTML forms.
- 28. Discuss the attributes used for form validation and user input handling in HTML.

# **Introduction to Cascading Style Sheets (CSS)**

- 29. What are the core concepts of Cascading Style Sheets (CSS) in web design?
- 30. Explain the process of creating a style sheet in CSS.
- 31. List and describe common CSS properties used for styling web content.
- 32. How does CSS impact the background properties of HTML elements?
- 33. Discuss CSS techniques for formatting and controlling text within web pages.
- 34. Explain how CSS allows for precise control over font properties in web design.
- 35. Describe the concept of block-level elements in CSS and their usage.
- 36. What are inline elements, and how do they differ from block-level elements in CSS?
- 37. Differentiate between CSS IDs and classes, and provide examples of their usage.
- 38. How does the CSS box model impact the layout and spacing of HTML elements?
- 39. Discuss CSS properties related to borders, padding, and margins.
- 40. Explain the role of CSS in defining colors and backgrounds on web pages.

# **Advanced CSS Concepts**

- 41. What is grouping in CSS, and how does it simplify style definitions?
- 42. Describe the use of dimensions in CSS for specifying sizes and measurements.
- 43. Explain the CSS property for controlling the display behavior of elements.
- 44. Discuss CSS positioning options, including relative, absolute, and fixed positioning.

- 45. How can floating elements be used to achieve specific layout effects in CSS?
- 46. What is the purpose of aligning elements in CSS, and what methods are available?
- 47. Provide examples of pseudo-classes and their application in CSS.
- 48. How do you create navigation bars using CSS, and what considerations are involved?
- 49. Explain the concept of image sprites and their benefits in web design.

## JavaScript Fundamentals

- 50. What is JavaScript, and how does it fit into the realm of client-side scripting?
- 51. Describe the structure and syntax of a simple JavaScript program.
- 52. Explain the role of variables in JavaScript and how they are declared.
- 53. Discuss the concept of functions in JavaScript and their importance in scripting.
- 54. Provide examples of conditional statements in JavaScript, including if-else and switch.
- 55. What are loops in JavaScript, and how do they facilitate repetitive tasks?
- 56. Describe the concept of arrays in JavaScript and their creation.
- 57. How can you access individual elements within JavaScript arrays?
- 58. Explain the concept of multidimensional arrays and their use cases in JavaScript.

## JavaScript Objects and the DOM

- 59. What are JavaScript objects, and how are they used to represent data?
- 60. Discuss the Document Object Model (DOM) and its relationship with web browsers.
- 61. Explain how JavaScript interacts with the DOM to manipulate web content.
- 62. Provide examples of JavaScript code for modifying HTML elements through the DOM.
- 63. Describe the significance of web browser environments in JavaScript development.
- 64. How can JavaScript be used for form handling and input validation on web pages?

## **Dynamic HTML (DHTML)**

- 65. What is Dynamic HTML (DHTML), and how does it combine HTML, CSS, and JavaScript?
- 66. Explain the role of events in DHTML and their relevance to user interaction.
- 67. Provide examples of using buttons in DHTML for triggering actions.
- 68. How can you control and manipulate the behavior of a web browser using DHTML?

#### **PHP Basics**

- 69. What is PHP, and why is it used for server-side scripting in web development?
- 70. Discuss the fundamental concepts of PHP, including variables and data types.
- 71. Explain how operators and expressions are used in PHP to perform operations.
- 72. Describe constants in PHP and their advantages in coding.
- 73. How does PHP facilitate decision-making in scripts, and what constructs are used?
- 74. Discuss the creation, access, and manipulation of strings in PHP.
- 75. Explain the functions and techniques for searching and replacing strings in PHP.

# **Arrays and PHP with Databases**

- 76. How are arrays created and managed in PHP, and what are their applications?
- 77. Describe the process of accessing and modifying elements within PHP arrays.
- 78. What are multidimensional arrays, and how can they be utilized in PHP?
- 79. Explain the integration of PHP with databases and its importance.
- 80. How can PHP be used for basic database operations, such as querying and updating data?