Introduction to CSS3

1. **What does CSS stand for?**
   - A. Creative Style Sheets
   - B. Cascading Style Sheets
   - C. Computer Style Sheets
   - D. Colorful Style Sheets

   Answer: B

2. **What is the main purpose of CSS?**
   - A. To add functionality to web pages
   - B. To structure content on web pages
   - C. To style and layout web pages
   - D. To create databases for web applications

   Answer: C

3. **Which of the following is a benefit of using CSS?**
   - A. Faster HTML development
   - B. Improved website accessibility
   - C. Enhanced interactivity
   - D. All of the above

   Answer: D

Selectors

4. **Which selector is used to select an element with a specific ID?**

   - A. #

   - B. .

   - C. *

   - D. []

   Answer: A

5. **Which selector selects elements with a specific class?**

   - A. #

   - B. .

   - C. *

   - D. []

   Answer: B

6. **What does the `a:hover` selector do?**
   - A. Selects all hovered elements
   - B. Selects an active link
   - C. Selects a link when the mouse is over it
   - D. Selects a visited link

   Answer: C

7. **How do you select an element with a specific attribute?**
   - A. `element[attr]`

- B. `element[attr="value"]`
- C. `element.attr`
- D. `element#attr`

  Answer: B

Box Model

8. **Which property is used to add space inside the border of an element?**
   - A. Margin
   - B. Padding
   - C. Border
   - D. Width

  Answer: B

9. **Which of the following is NOT a part of the CSS box model?**
   - A. Content
   - B. Margin
   - C. Padding
   - D. Font

  Answer: D

10. **What does the `box-sizing: border-box;` property do?**
    - A. Includes the padding and border in the element's total width and height

- B. Excludes the padding and border from the element's total width and height

- C. Only includes the border in the element's total width and height

- D. Only includes the padding in the element's total width and height

Answer: A

Layout Techniques

11. **Which property is used to change the display type of an element?**
    - A. `display`
    - B. `position`
    - C. `float`
    - D. `overflow`

    Answer: A

12. **Which value of the `position` property is used to position an element relative to its normal position?**
    - A. Static
    - B. Relative
    - C. Absolute
    - D. Fixed

    Answer: B

13. **What does the `float` property do?**
    - A. Moves an element to the left or right of its container

- B. Changes the element's display to inline-block

- C. Fixes the element at a specific position in the viewport

- D. Sets the element's overflow to hidden

   Answer: A

14. **Which property is used to control the flow of flex items in a flex container?**

   - A. `flex-flow`

   - B. `flex-direction`

   - C. `align-items`

   - D. `justify-content`

   Answer: B

15. **Which property is used to define the columns in a CSS Grid layout?**

   - A. `grid-template-rows`

   - B. `grid-column-gap`

   - C. `grid-template-columns`

   - D. `grid-template-areas`

   Answer: C

Styling Text and Fonts

16. **Which property is used to change the text color of an element?**

   - A. `font-color`

- B. `text-color`
- C. `color`
- D. `text-style`

Answer: C

17. **Which property is used to change the font of an element?**
   - A. `font-family`
   - B. `font-style`
   - C. `font-weight`
   - D. `font-size`

   Answer: A

18. **How do you make text bold in CSS?**
   - A. `font-style: bold;`
   - B. `font-weight: bold;`
   - C. `text-weight: bold;`
   - D. `font-style: bolder;`

   Answer: B

19. **Which property is used to add space between characters?**
   - A. `word-spacing`
   - B. `letter-spacing`
   - C. `line-height`
   - D. `text-indent`

Answer: B

Colors and Backgrounds

20. **How do you set the background color of an element to blue?**
   - A. `background: blue;`
   - B. `bg-color: blue;`
   - C. `background-color: blue;`
   - D. `color: blue;`

   Answer: C

21. **Which property is used to control the repetition of a background image?**
   - A. `background-position`
   - B. `background-size`
   - C. `background-repeat`
   - D. `background-attachment`

   Answer: C

22. **How do you create a linear gradient background from blue to green?**
   - A. `background: linear-gradient(blue, green);`
   - B. `background: gradient(linear, blue, green);`

- C. `background: linear-gradient(to bottom, blue, green);`
- D. `background: gradient(linear, 0deg, blue, green);`

   Answer: A

Borders and Shadows

23. **How do you set a border for an element?**
   - A. `border: 1px solid black;`
   - B. `border-width: 1px; border-style: solid; border-color: black;`
   - C. Both A and B
   - D. None of the above

   Answer: C

24. **Which property is used to add shadow to an element?**
   - A. `shadow`
   - B. `box-shadow`
   - C. `text-shadow`
   - D. `element-shadow`

   Answer: B

25. **How do you round the corners of an element?**
   - A. `border-corner-radius`
   - B. `border-radius`
   - C. `corner-radius`

- D. `border-corners`

  Answer: B

Transitions and Animations

26. **Which property is used to define a transition effect?**
    - A. `transition`
    - B. `transform`
    - C. `animation`
    - D. `effect`

  Answer: A

27. **How do you create a transition effect for the `width` property?**
    - A. `transition: width;`
    - B. `transition: width 2s;`
    - C. `animation: width 2s;`
    - D. `transform: width 2s;`

  Answer: B

28. **Which property is used to define the keyframes of an animation?**
    - A. `@keyframes`
    - B. `@animation`
    - C. `@transitions`
    - D. `@frames`

Answer: A

Transformations

29. **Which property is used to apply 2D transformations to an element?**
   - A. `transition`
   - B. `animation`
   - C. `transform`
   - D. `transform-2d`

   Answer: C

30. **How do you rotate an element by 45 degrees?**
   - A. `transform: rotate(45);`
   - B. `transform: rotate(45deg);`
   - C. `transform: rotate(45degrees);`
   - D. `transform: rotate(45angle);`

   Answer: B

Responsive Design

31. **Which of the following is a media query feature?**
   - A. `min-width`
   - B. `max-width`
   - C. `orientation`

- D. All of the above

   Answer: D

32. **How do you create a responsive design using media queries?**
   - A. `@media screen and (max-width: 600px) { /* CSS rules */ }`
   - B. `@media screen and (min-width: 600px) { /* CSS rules */ }`
   - C. `@media screen and (max-width: 600px) { /* CSS rules */ }`
   - D. `@media screen and (max-height: 600px) { /* CSS rules */ }`

   Answer: A

33. **Which unit is NOT used for responsive design?**
   - A. %
   - B. em
   - C. rem
   - D. pt

   Answer: D

CSS Frameworks and Preprocessors

34. **Which of the following is a CSS framework?**
   - A. Bootstrap
   - B. Sass
   - C. LESS
   - D. jQuery

Answer: A

35. **Which preprocessor uses the `.scss` file extension?**

   - A. LESS

   - B. Sass

   - C. PostCSS

   - D. Stylus

   Answer: B

Best Practices and Optimization

36. **What does the BEM methodology stand for?**

   - A. Block, Element, Modifier

   - B. Base, Element, Module

   - C. Block, Element, Model

   - D. Base, Element, Modifier

   Answer: A

37. **Which principle encourages reusing styles instead of duplicating them?**

   - A. DRY

   - B. BEM

   - C. KISS

   - D. YAGNI

Answer: A

38. **What is a common technique for optimizing CSS performance?**

    - A. Combining CSS files

    - B. Removing unused CSS

    - C. Minifying CSS

    - D. All of the above

    Answer: D

Advanced Topics

39. **How do you define a custom property in CSS?**

    - A. `--custom-property: value;`

    - B. `custom-property: value;`

    - C. `$custom-property: value;`

    - D. `@custom-property: value;`

    Answer: A

40. **Which function is used to perform calculations in CSS?**

    - A. `calc()`

    - B. `calculate()`

    - C. `compute()`

    - D. `math()`

Answer: A

Tools and Resources

41. **Which tool is commonly used to inspect and debug CSS in browsers?**
    - A. Developer Tools
    - B. CSS Validator
    - C. Code Editor
    - D. Terminal

    Answer: A

42. **Which website provides official documentation for CSS?**
    - A. W3Schools
    - B. MDN Web Docs
    - C. CSS-Tricks
    - D. Stack Overflow

    Answer: B

43. **What is the purpose of CSS validation tools?**
    - A. To test the functionality of CSS
    - B. To check for syntax errors and best practices in CSS
    - C. To minify CSS files
    - D. To combine CSS files

Answer: B

Additional MCQs

44. **Which CSS property is used to control the layout of grid items in a CSS Grid?**
   - A. `grid-layout`
   - B. `grid-template`
   - C. `grid-area`
   - D. `grid-template-rows`

   Answer: C

45. **What does the `justify-content` property do in a flex container?**
   - A. Aligns flex items along the main axis
   - B. Aligns flex items along the cross axis
   - C. Distributes space around flex items
   - D. Both A and C

   Answer: D

46. **Which property is used to specify the thickness of the border?**
   - A. `border-style`
   - B. `border-color`
   - C. `border-width`
   - D. `border-thickness`

Answer: C

47. **How do you create a radial gradient in CSS?**
   - A. `background: radial-gradient(center, circle, color1, color2);`
   - B. `background: radial-gradient(circle, color1, color2);`
   - C. `background: radial-gradient(center, color1, color2);`
   - D. `background: radial-gradient(circle, center, color1, color2);`

   Answer: B

48. **Which property is used to create an animation effect on an element?**
   - A. `animation`
   - B. `transition`
   - C. `transform`
   - D. `effect`

   Answer: A

49. **How do you apply multiple background images to an element?**
   - A. `background-image: url(image1), url(image2);`
   - B. `background: url(image1), url(image2);`
   - C. `backgrounds: url(image1), url(image2);`
   - D. `background-multiple: url(image1), url(image2);`

   Answer: A

50. **Which property is used to align flex items along the cross axis?**

- A. `justify-content`

- B. `align-items`

- C. `align-content`

- D. `align-flex`

  Answer: B

51. **How do you apply a shadow to text in CSS?**
   - A. `text-shadow`

   - B. `box-shadow`

   - C. `shadow`

   - D. `text-effect`

  Answer: A

52. **Which property is used to control the spacing between lines of text?**
   - A. `letter-spacing`

   - B. `line-height`

   - C. `word-spacing`

   - D. `text-spacing`

  Answer: B

53. **Which CSS function is used to set the height of an element relative to the viewport?**
   - A. `vh`

   - B. `vw`

- C. `rem`

- D. `em`

Answer: A

54. **How do you make an element fixed at the top of the page when scrolling?**

   - A. `position: fixed; top: 0;`

   - B. `position: absolute; top: 0;`

   - C. `position: static; top: 0;`

   - D. `position: sticky; top: 0;`

Answer: D

55. **Which property is used to control the order of flex items in a flex container?**

   - A. `flex-direction`

   - B. `order`

   - C. `flex-order`

   - D. `item-order`

Answer: B

56. **How do you apply a hover effect to an element?**

   - A. `:hover`

   - B. `:focus`

   - C. `:active`

   - D. `:visited`

Answer: A

57. **Which property is used to specify the distance between the border and the content of an element?**

    - A. `padding`

    - B. `margin`

    - C. `border-spacing`

    - D. `border-margin`

    Answer: A

58. **Which property is used to control the alignment of text?**

    - A. `text-align`

    - B. `text-position`

    - C. `text-indent`

    - D. `text-spacing`

    Answer: A

59. **How do you make an image responsive in CSS?**

    - A. `width: 100%; height: auto;`

    - B. `width: auto; height: 100%;`

    - C. `width: auto; height: auto;`

    - D. `width: 100%; height: 100%;`

    Answer: A

60. **Which property is used to change the size of an element's font?**

   - A. `font-family`

   - B. `font-weight`

   - C. `font-style`

   - D. `font-size`

   Answer: D

61. **How do you create a flexible container in CSS?**

   - A. `display: flex;`

   - B. `display: block;`

   - C. `display: inline;`

   - D. `display: grid;`

   Answer: A

62. **Which property is used to control the space between flex items in a flex container?**

   - A. `flex-gap`

   - B. `flex-space`

   - C. `gap`

   - D. `space-between`

   Answer: C

63. **How do you set a background image to cover the entire element?**

- A. `background-size: cover;`

- B. `background-cover: true;`

- C. `background-fit: cover;`

- D. `background-fit: true;`

Answer: A

64. **Which property is used to control the vertical alignment of an element?**

- A. `vertical-align`

- B. `align-items`

- C. `align-content`

- D. `justify-content`

Answer: A

65. **How do you apply a custom font to an element in CSS?**

- A. `@font-face`

- B. `@font-family`

- C. `@font`

- D. `@font-style`

Answer: A

66. **Which CSS function is used to rotate an element?**

- A. `rotate()`

- B. `transform()`

- C. `turn()`

- D. `spin()`

Answer: A

67. **How do you hide an element in CSS?**

   - A. `display: none;`

   - B. `visibility: hidden;`

   - C. Both A and B

   - D. None of the above

   Answer: C

68. **Which property is used to set the distance between words in a text?**

   - A. `letter-spacing`

   - B. `word-spacing`

   - C. `line-height`

   - D. `text-indent`

   Answer: B

69. **How do you make an element transparent in CSS?**

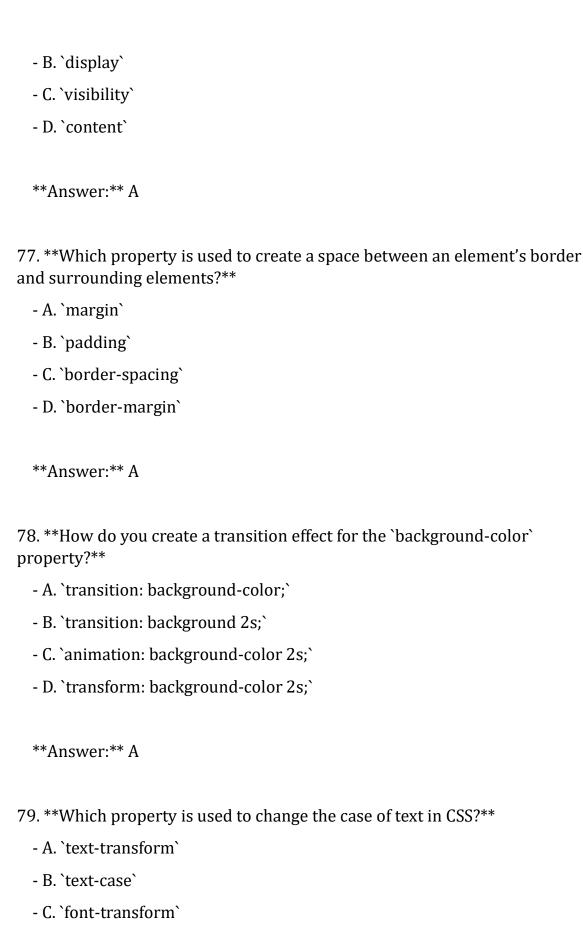   - A. `opacity`

   - B. `visibility`

   - C. `display`

   - D. `filter`

Answer: A

70. **Which property is used to specify whether an element is resizable by the user?**

- A. `resize`

- B. `draggable`

- C. `movable`

- D. `expandable`

Answer: A

71. **Which property is used to control the appearance of list markers in a list?**

- A. `list-style-type`

- B. `list-marker`

- C. `list-style-position`

- D. `list-item`

Answer: A

72. **How do you apply a different style for the first line of a paragraph?**

- A. `::first-line`

- B. `:first-line`

- C. `::line-first`

- D. `:line-first`

Answer: A

73. **Which property is used to change the appearance of the cursor when hovering over an element?**

   - A. `hover`

   - B. `cursor`

   - C. `pointer`

   - D. `click`

   Answer: B

74. **Which property is used to set the maximum height of an element?**

   - A. `height`

   - B. `max-height`

   - C. `min-height`

   - D. `fixed-height`

   Answer: B

75. **How do you apply a drop shadow to an element in CSS?**

   - A. `box-shadow`

   - B. `drop-shadow`

   - C. `element-shadow`

   - D. `shadow-box`

   Answer: A

76. **Which property is used to control the overflow of content in an element?**

   - A. `overflow`

- B. `display`

- C. `visibility`

- D. `content`

  Answer: A

77. **Which property is used to create a space between an element's border and surrounding elements?**

  - A. `margin`

  - B. `padding`

  - C. `border-spacing`

  - D. `border-margin`

  Answer: A

78. **How do you create a transition effect for the `background-color` property?**

  - A. `transition: background-color;`

  - B. `transition: background 2s;`

  - C. `animation: background-color 2s;`

  - D. `transform: background-color 2s;`

  Answer: A

79. **Which property is used to change the case of text in CSS?**

  - A. `text-transform`

  - B. `text-case`

  - C. `font-transform`

- D. `font-case`

  Answer: A

80. **How do you create an underline effect for text in CSS?**
   - A. `text-decoration: underline;`
   - B. `font-decoration: underline;`
   - C. `text-underline: true;`
   - D. `font-underline: true;`

   Answer: A

81. **Which property is used to set the width of an element to be responsive to the viewport width?**
   - A. `vw`
   - B. `vh`
   - C. `vmin`
   - D. `vmax`

   Answer: A

82. **How do you make an element's position fixed in relation to its nearest positioned ancestor?**
   - A. `position: absolute;`
   - B. `position: relative;`
   - C. `position: fixed;`
   - D. `position: static;`

Answer: A

83. **Which property is used to control the direction of flex items in a flex container?**

   - A. `flex-direction`

   - B. `align-items`

   - C. `flex-flow`

   - D. `justify-content`

   Answer: A

84. **How do you apply a border only to the top of an element?**

   - A. `border-top`

   - B. `border-top-width`

   - C. `border-width-top`

   - D. `border-width: top`

   Answer: A

85. **Which property is used to specify the alignment of a flex container's content along the cross axis?**

   - A. `align-content`

   - B. `justify-content`

   - C. `align-items`

   - D. `flex-align`

   Answer: A

86. **How do you create a repeating linear gradient background?**

   - A. `background: repeating-linear-gradient(color1, color2);`

   - B. `background: linear-gradient(repeat, color1, color2);`

   - C. `background: linear-gradient(repeating, color1, color2);`

   - D. `background: linear-gradient(color1, color2) repeat;`

   Answer: A

87. **Which property is used to set the horizontal alignment of an element's block content?**

   - A. `text-align`

   - B. `content-align`

   - C. `align-content`

   - D. `align-block`

   Answer: A

88. **How do you apply a margin of 10 pixels to all sides of an element?**

   - A. `margin: 10px;`

   - B. `margin: 10px 0;`

   - C. `margin: 10px 0 0 0;`

   - D. `margin: 0 10px;`

   Answer: A

89. **Which property is used to control the stacking order of positioned elements?**

   - A. `z-index`

- B. `stack-index`

- C. `order`

- D. `index`

  Answer: A

90. **How do you apply a gradient background to an element?**

   - A. `background: linear-gradient(color1, color2);`

   - B. `background-gradient: color1, color2;`

   - C. `background: gradient(color1, color2);`

   - D. `background: color1, color2 gradient;`

   Answer: A

91. **Which property is used to control the space between table cells?**

   - A. `cell-spacing`

   - B. `cell-padding`

   - C. `border-spacing`

   - D. `table-spacing`

   Answer: C

92. **How do you change the alignment of flex items in a flex container along the main axis?**

   - A. `justify-content`

   - B. `align-content`

   - C. `align-items`

- D. `flex-align`

Answer: A

93. **Which property is used to specify the width of an element?**
   - A. `height`
   - B. `width`
   - C. `size`
   - D. `dimension`

Answer: B

94. **How do you apply a different style for the first letter of a paragraph?**
   - A. `::first-letter`
   - B. `:first-letter`
   - C. `::letter-first`
   - D. `:letter-first`

Answer: A

95. **Which property is used to set the display type of an element?**
   - A. `display`
   - B. `type`
   - C. `visibility`
   - D. `position`

Answer: A

96. **How do you center an element horizontally within its container?**

   - A. `margin: auto;`

   - B. `align: center;`

   - C. `justify: center;`

   - D. `text-align: center;`

   Answer: A

97. **Which property is used to specify the minimum width of an element?**

   - A. `width`

   - B. `min-width`

   - C. `max-width`

   - D. `fixed-width`

   Answer: B

98. **How do you apply a different style for a visited link in CSS?**

   - A. `:visited`

   - B. `:hover`

   - C. `:active`

   - D. `:link`

   Answer: A

99. **Which property is used to set the height of an element?**

- A. `height`

- B. `width`

- C. `size`

- D. `dimension`

Answer: A

100. **How do you set the font size of an element in CSS?