

Question 1 : Answer The Following Questions With Examples

- 1- Explain :has() pseudo-class
- 2- What is CSS aspect-ratio property?
- 3- How would you optimize CSS for performance?
- 4- What are CSS Custom Properties (Variables) and their advantages over Sass variables?
- 5- If the width of the container is 500 pixels, what would the width of the three columns be in this layout?

```
.grid { display: grid; grid-template-columns: 50px 1fr 2fr; }
```

- 6-What is the Critical Rendering Path?
- 7- What is the purpose of the CSS clamp() function?
- 8- In the context of CSS performance, what is 'Layout Thrashing'?
- 9- What is the best way to code three choices within a form input so that the user can select only one item?
- 10- Using the :nth-child pseudo-class, what would be the most efficient way to style every third item in a list, no matter how many items are present, starting with item 2?

Question 2 : What does the code shown below accomplish?

```
<picture>
  <source srcset="image1.jpg" media="(min-width: 1000px)" />
  <source srcset="image2.jpg" media="(min-width: 750px)" />
  
</picture>
```

```
.example {
  margin-left: calc(5% + 5px);
}
```

```
<picture>
  <source srcset="image1.jpg" media="(min-width: 1000px)" />
  <source srcset="image2.jpg" media="(min-width: 750px)" />
  
</picture>
```

```

<table>
  <tr>
    <th scope="row">Header</th>
    <td>10</td>
    <td>18</td>
  </tr>
</table>

```

Question 3 :

1- The flex-direction property is used to specify the direction in which flex items are displayed. What are the values used to specify the direction of the items in the following examples?

EXAMPLE 1

1

2

3

4

EXAMPLE 3

1

2

3

4


EXAMPLE 4

4

3

2

1



EXAMPLE 2

4

3

2

1

2- Which element(s) will be blue?

```
h2 ~ p {  
  color: blue;  
}
```

```
<section>  
  <p>P1</p>  
  <h2>H2</h2>  
  <p>P3</p>  
  <p>P4</p>  
</section>
```

Question 4 : Create this design using grid and flex, as well as without them.

Happy Pets Gallery

See our furry friends looking their best



Good Luck
Eng.Hesham Mohamed