

Sure 👍 below are **very long, clear, exam-oriented answers** for all **9 questions**, written exactly in the style expected for **LPU / MCA / Web Technologies** exams.

1. How do you assign absolute values using the font-size property?

The font-size property in CSS is used to control the size of text. **Absolute values** specify a fixed font size that does not depend on the parent element or screen size.

Absolute units used with font-size include:

- px (pixels)
- pt (points)
- cm (centimeters)
- mm (millimeters)
- in (inches)
- pc (picas)

Example using absolute values:

```
p {  
    font-size: 16px;  
}  
  
h1 {  
    font-size: 24pt;  
}
```

Explanation:

- The size remains **constant** regardless of screen resolution or parent font size.
- Absolute values are useful when precise control over text size is required.
- However, they are **not responsive** and can cause accessibility issues.

Conclusion:

Absolute font sizes are easy to use but should be avoided in responsive design.

2. Explain the font-size property using percentage values

When the font-size property is defined using **percentage values**, the size is calculated relative to the **parent element's font size**.

Example:

```
div {  
    font-size: 20px;
```

```
}
```

```
p {  
  font-size: 150%;  
}
```

Explanation:

- If the parent element has a font size of 20px, 150% = 30px
- Percentage-based font sizes are **relative**, making them flexible.

Advantages:

- Improves responsiveness
- Easier scaling across devices
- Better accessibility

Conclusion:

Percentage values are recommended when designing responsive and scalable web pages.

3. What is the main property of the Box Model in CSS? Explain with an example

The **CSS Box Model** defines how elements are structured and spaced on a webpage. Every HTML element is treated as a rectangular box.

Main components of the Box Model:

1. **Content**
2. **Padding**
3. **Border**
4. **Margin**

Diagram representation (conceptual):

Margin

Border

Padding

Content

Example:

```
div {  
  width: 200px;  
  padding: 20px;
```

```
border: 5px solid black;
margin: 10px;
}
```

Explanation:

- Content: Actual text or image
- Padding: Space between content and border
- Border: Surrounds padding
- Margin: Space outside the border

The Box Model is fundamental for layout design in CSS.

4. What are the two properties that influence the dimensions of the content in the CSS Box Model?

The two properties that directly influence the **dimensions of content** are:

1. width

- Defines the horizontal size of the content area.

2. height

- Defines the vertical size of the content area.

Example:

```
div {
  width: 300px;
  height: 150px;
}
```

Explanation:

- These properties control only the **content area**
- Padding, border, and margin are added **outside** these dimensions

These properties are crucial for controlling element size.

5. Tell us about the property used for image scroll controlling

The CSS property used for **image scroll controlling** is:

background-attachment

This property specifies whether a background image scrolls with the page or stays fixed.

Values:

- scroll – Image scrolls with the page (default)
- fixed – Image remains fixed
- local – Scrolls within the element

Example:

```
body {  
  background-image: url("image.jpg");  
  background-attachment: fixed;  
}
```

Use:

- Creates parallax scrolling effects
 - Enhances visual design
-

6. How to use the margin property of a box? Explain with an example

The margin property controls the **space outside the border** of an element.

Ways to use margin:**1. Single value (all sides):**

```
div {  
  margin: 20px;  
}
```

2. Four values (top right bottom left):

```
div {  
  margin: 10px 20px 30px 40px;  
}
```

3. Individual sides:

```
div {  
  margin-top: 10px;  
  margin-right: 20px;  
}
```

Purpose:

- Controls spacing between elements
 - Improves layout clarity
-

7. How to set the top margin property of an element? Are negative values allowed?

The **top margin** of an element is set using the margin-top property.

Example:

```
p {  
  margin-top: 20px;  
}
```

Negative values:

Yes, **negative values are allowed**.

Example:

```
p {  
  margin-top: -10px;  
}
```

Explanation:

- Negative margins pull elements closer or overlap them
 - Used carefully for advanced layout adjustments
-

8. Display a margin of 10cm from the right and 10cm from the top

This can be achieved using margin-top and margin-right.

Example:

```
div {  
  margin-top: 10cm;  
  margin-right: 10cm;  
}
```

Explanation:

- cm is an absolute unit
 - Useful for print-based layouts
 - Not recommended for responsive design
-

9. Tell us about column-span and column-fill properties

These properties are used in **CSS multi-column layouts**.

column-span

Defines whether an element should span across all columns.

Example:

```
h1 {  
  column-span: all;  
}
```

Use:

- Makes headings span across multiple columns
-

column-fill

Controls how content is distributed across columns.

Values:

- balance – Evenly distributes content
- auto – Fills columns sequentially

Example:

```
div {  
  column-fill: balance;  
}
```

Conclusion:

- column-span controls width across columns
 - column-fill controls content distribution
-