

MERN STACK JOURNEY

CLASS 10 NOTES – DEVELOPING LAYOUTS

1. Approach to Develop a Layout

1.1 HTML Image vs CSS Background Image

Ways to add images on a website

- HTML `` tag
- CSS `background-image`

When to use HTML Image

- When the image is **part of the content**
- When there is **no text or elements on top of the image**

```

```

When to use CSS Background Image

- When the image is **not part of the content**
- When **text or elements are placed over the image**

```
.section {  
  background-image: url("bg.png");  
}
```

✅ MCQ: The HTML image element is used to add images that are part of the content. - True ✅ - False

2. CSS Margin vs CSS Padding

CSS Padding

- Space **inside the border**
- Space between **content and border**

CSS Margin

- Space **outside the border**
- Space between **HTML elements**

```
.button {  
  padding: 20px;  
  margin: 15px;  
}
```

✓ MCQ: The margin is the space present outside the border of an HTML element. - True ✓ - False

3. Step-by-Step Process to Develop Diwali Page

The Diwali page is divided into: - Top Section - Bottom Section

3.1 Top Section

Step 1: Background Image

- Add background image
- Set height
- Use `background-size: cover`

Step 2: Heading Styling

- Text color
- Font family
- Font size
- Width
- Padding

```
.diwali-top-section {  
  background-image: url("diwali-bg.png");  
  height: 30vh;  
  background-size: cover;  
}  
  
.diwali-top-section-heading {  
  color: white;  
  font-family: "Caveat";  
  font-size: 36px;  
  width: 200px;  
  padding: 20px;  
}
```

3.2 Bottom Section

Step 1: Bottom Section Container

- Background color
- Padding

Step 2: Card Item Design

Each card contains: - Image - Product name - Price

Card styling: - Background color - Width - Border radius - Padding - Margin - Text alignment

Step 3: Aligning Cards

- Use Flexbox
- `display: flex`
- `flex-direction: row`
- `justify-content: center`

Step 4: Button

- Bootstrap button
- Center aligned

```
.diwali-bottom-section {  
  text-align: center;  
  background-color: #e6f6ff;  
  padding: 15px;  
}  
  
.diwali-card-item {  
  background-color: white;  
  width: 140px;  
  border-radius: 9px;  
  padding: 16px;  
  margin: 15px;  
}
```

4. Resources Used

Background Image

- <https://d2clawv67efefq.cloudfront.net/ccbp-static-website/diwali-bg.png>

Card Images

- Lamp Image
- Diya Image

- Firework Image
- Firecracker Image

Colors Used

- white

• **e6f6ff**

• **616e7c**

• **323f4b**

5. Interview Questions (Beginner Level)

1. Difference between margin and padding?
2. When should you use background-image instead of img tag?
3. What does `background-size: cover` do?
4. Why is Flexbox used in layouts?
5. Difference between content image and decorative image?

6. Key Takeaways

- Proper layout planning is important
- Understand spacing using margin and padding
- Use background images for decorative sections
- Flexbox helps in alignment and responsiveness



These notes are GitHub-ready and suitable for interviews, revision, and portfolio documentation.