

HTML5/CSS3 Exam

PSDC Batch 2.0

Roll # *

21470

Full Name *

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HTML Basics

Instructions:

1. All MCQs are required
2. No help from internet allowed

Which of the following is true about HTML 5? *

- ☐ HTML5 is the next major revision of the HTML standard superseding HTML 4.01, XHTML 1.0, and XHTML 1.1.
- ☐ HTML5 is a standard for structuring and presenting content on the World Wide Web.
- ☐ HTML5 is a cooperation between the World Wide Web Consortium (W3C) and the Web Hypertext Application Technology Working Group (WHATWG).
- ☒ All of the above

Which tag is used to define an image in HTML? *

- ☒
- ☐ <image>
- ☐ <source>
- ☐ <imgsrc>

Which attribute is used to specify the URL of the page the link goes to? *

- ☒ href
- ☐ link
- ☐ src
- ☐ url

Which of the following attributes is used to specify the relationship between the current document and the linked resource in HTML5? *

- ☒ rel
- ☐ link
- ☐ href
- ☐ alt

Which HTML5 element is used to group related elements in a form? *

- ☒ <fieldset>
- ☐ <group>
- ☐ <section>
- ☐ <container>

What is the purpose of the "main" element in HTML5? *

- ☒ It specifies the main content of a document or section
- ☐ It defines a section that contains the primary navigation links for a document
- ☐ It sets the main heading of a document or section
- ☐ It provides a way to define a reusable template for a document

CSS3 Basics

Instructions:

1. All MCQs are required
2. No help from internet allowed

What is CSS used for? *

- ☐ To define the structure of a document.
- ☐ To handle the interaction by the user on a document.
- ☒ To define stylings of the document.
- ☐ All of the above.

What is the purpose of the "transition" property in CSS3? *

- ☐ It specifies the timing function and duration of a CSS property change.
- ☐ It defines how the element is hidden from the document.
- ☐ It sets the smooth effect to HTML tag.
- ☒ All of the above.

What is @keyframes used for in CSS3? *

- ☐ It defines the starting and ending states of an animation.
- ☐ It sets the smooth effect to the element
- ☐ It defines the initial position of the element
- ☐ It controls how the element is shown after page is rendered
- ☒ All of the above

What will be selected with the given CSS rule: `div.container p>span`? *

- ☐ All `` elements directly nested within `<p>` elements that are descendants of element `<div>` element with class `".container"`.
- ☐ All `` elements that are any child of `<p>` elements which are direct child of `<div>` element with the class `"container"`.
- ☒ All `` elements directly nested within `<p>` elements that are children of elements with the class `"container"` inside the `<main>` element.
- ☐ None of the above.

Which pseudo-class is used to select an element that is the first child of its parent? *

- ☒ `:first-child`
- ☐ `:last-child`
- ☐ `:nth-child(1)`
- ☐ `:only-child`

Which pseudo-element is used to insert content before the content of an element? *

- ☐ `::first-letter`
- ☐ `::first-line`
- ☒ `::before`
- ☐ `::after`

Short Code Challenges

Instructions:

1. All questions are required
2. No help from internet allowed
3. Write code in your code editor
4. Paste answer part only, not complete html file.

Write the HTML code to create a basic webpage structure including the following * elements:

Title: "My Webpage"

Heading: "Welcome to My Webpage"

Paragraph: "This is a simple webpage."

```
<!DOCTYPE html>
<html >
<head>
  <title>My Webpage</title>
</head>
<body>
  <h1>Welcome to My Webpage</h1>
  <p>This is a simple webpage</p>
</body>
</html>
```

Create an unordered list with three items. Each item should be a link with below requirements: *

1- First link should open in new tab (use: <https://baitussalam.org/contact>)

2- Second link should open in same tab (use: <https://baitussalam.org/>)

3- Third link should open email app (use: johndoe@example.com)

ul>

```
<li> <a href="https://baitussalam.org/contact" target="_blank">page 1</a></li>
```

```
<li><a href="https://baitussalam.org/">page 2</a></li>
```

```
<li><a type="example" href="johndoe@example.com">page 3</a></li>
```

```
</ul>
```

Insert an image of a cute animal (cute_animal.jpg) with the alt attribute "Cute Animal" and a width of 300 pixels. (just write a syntax, no need to check if image is working or not, syntax should be correct) *

```

```

Write CSS code to style the <body> element with the following properties: *

Background: green

Font: Arial, sans-serif

Text: white

Padding: 20 pixels

```
body{
```

```
  background-color: green;
```

```
  font-family: Arial, sans-serif;
```

```
  color: white;
```

```
  padding: 20px;
```

```
}
```

Write a CSS selector to target all <h2> elements on the webpage and style them to have a font size of 24 pixels and text color of green. *

```
h2{
  background-color: green;
  font-size: 24px;
}
```

Write a CSS selector to target all sibling elements of div tag for below code and style them to have border top 1px solid and margin top of 16px *

```
<body>
  <div id="my-container">this is container</div>
  <p>some paragraph</p>
  <div>some other div</div>
  <a href="#">some link</a>
</body>
```

```
body div{
  top: 1px solid;
  margin: 16px;
}
```

Explain the concept of CSS pseudo-classes and provide an example of how :hover pseudo-class can be used to change the style of a link when hovered over. *

In CSS pseudo_classes is use to change after clicking or hovering

```
a:hover{
  background-color: brown;
  color: aqua;
}
```

Flex box Challenge

Instructions:

1. You can take help from **W3School**

2. Write code in your code editor
3. Paste complete file in answer
4. Write internal css so we can test easily.

Goal: Design a layout with three cards, each representing an item. Each card will have an image and a item name. *

Instructions:

Body background color: #006eff

Card Size & Alignment: Cards container should be vertically and horizontally centered on the screen. All three cards and images should be the same size and aligned in a row. Ensure they are evenly spaced.

Card Layout: Each card should display the item name below the image. each card should have some padding, white background and light shadow

Hover Effect: Add a hover effect so that the card's background color changes when you hover over it.

Hint: HTML & CSS will be tested. Dont worry about how exactly it looks like.

use below category list in cards respectively

1- Apple watch

image: <https://store.storeimages.cdn-apple.com/4668/as-images.apple.com/is/refurb-40-nc-alum-midnight-sport-band-midnight?wid=1144&hei=1144&fmt=jpeg&qlt=90&.v=1709338562014>

2- Apple Macbook

image: <https://store.storeimages.cdn-apple.com/4668/as-images.apple.com/is/refurb-macbook-air-space-gray-m1-202010?wid=1144&hei=1144&fmt=jpeg&qlt=90&.v=1634145627000>

3- Apple Iphone

image: <https://store.storeimages.cdn-apple.com/4668/as-images.apple.com/is/refurb-iphone-13-pro-max-graphite-2023?wid=1144&hei=1144&fmt=jpeg&qlt=95&.v=1679072989055>

Boilerplate HTML Structure:

```
<div class="card-container">  
  <!-- Add code -->  
</div>
```

Boilerplate CSS (Flexbox):

```
.card-container {
/* Your CSS code here */
}

.card {
/* Your CSS code here */
}

.card:hover {
/* Your CSS code here */
}

<!DOCTYPE html>
<html >
<head>
<title>My Webpage</title>
<style>
body{
    background-color:#006eff;

}

.card-container {
display: flex;
top: 10px;
flex-flow:row wrap;
justify-content: center;
justify-content: space-evenly;

}

.card {
padding: 30px;
width: 250px;
height:250px;
border-radius: 10px;
border: 1px solid #006eff;
background-color: white;
box-shadow: 10px 10px 12px rgba(3, 112, 12, 0.849);
}
div p{
    color: aqua;
    font-size: 30px;

}

.card:hover {
background-color: red;

}

}
```

```
</style>
</head>
<body>
  <div class="card-container">
    <div class="card"> 
      <hr><p>Apple watch</p>
    </div>

    <div class="card" > 
      <hr><p>Apple Macbook</p>
    </div>

    <div class="card">
      <hr><p>Apple Iphone</p>
    </div>
  </div>
</body>
</html>
```

Grid Challenge

Instructions:

1. You can take help from **W3School**
2. Write code in your code editor
3. Paste complete file in answer
4. Write internal css so we can test easily.

Goal: Design a responsive grid layout using CSS Grid to showcase a collection of items. *

Requirements:

Create a grid layout with three columns. Each grid item should represent a photo and include an image and a caption below image.

Ensure the grid adapts to different screen sizes using media queries, displaying one column on small screens, two columns on medium screens, and three columns on large screens.

Utilize CSS Grid properties to define the grid structure and spacing between grid items.

Implement hover on image and transform scale to 2.0.

screen sizes:

mobile: 0- 430px

tablet: 430 - 1024px

desktop: 1024 onwards;

Use below images data:

1- Earth perfume for men

image: <https://www.gulahmedshop.com/media/catalog/product/e/a/earth.jpg?optimize=medium&fit=bounds&height=1050&width=700>

2- Fire Perfume For Men

image: <https://www.gulahmedshop.com/media/catalog/product/f/i/fire.jpg?optimize=medium&fit=bounds&height=1050&width=700>

3- Air Perfume For Men

image: <https://www.gulahmedshop.com/media/catalog/product/a/i/air.jpg?optimize=medium&fit=bounds&height=1050&width=700>

Boilerplate HTML Structure:

```
<div class="photo-grid">  
  <!-- Add code -->  
</div>
```

Boilerplate CSS (Grid):

```
.photo-grid {  
  /* Your CSS code here */  
}  
  
.photo {  
  /* Your CSS code here */  
}  
  
.photo:hover img {  
  /* Your CSS code here */  
}  
  
<!DOCTYPE html>  
<html >  
<head>  
  <title>My Webpage</title>  
  <style>  
    body{  
      background-color:#006eff;  
  
    }  
    .photo-grid {  
      display: grid;  
      grid-template-columns: 200px 200px 200px;  
      grid-template-rows: 200px 200px 200px ;  
      row-gap: 100px;  
      column-gap: 100px;  
    }  
    .photo {  
      padding: 10px;  
      margin: 10px;  
      width: 250px;  
      height:250px;  
  
      border-radius: 10px;  
      border: 1px solid #006eff;  
      background-color: white;  
  
    }  
    .photo:hover img {  
      transform: scale(2.0);  
  
    }  
    @media screen and (min-width:0px) and (max-width:430px) {  
      .photo-grid  
      {  
        display: grid;  

```

```

        grid-template-columns: 1fr ;
        grid-template-rows: repeat(3,auto) ;

    }
}
@media screen and (min-width: 430px)and(max-width: 1024px) {
    .photo-grid{ display: grid;
        grid-template-columns: 1fr 1fr ;
        grid-template-rows: repeat(2,auto) ;

    }
}
</style>
</head>
<body>
    <div class="photo-grid">
        <div class="photo"> <figure>
        <hr><caption>Earth perfume for men</caption></figure>
    </div>

    <div class="photo" > 
        <hr><caption>Fire Perfume For Men</caption>
    </div>

    <div class="photo">
        <hr><caption>Air Perfume For Men</caption>
    </div>
</div>
</html>

```

Design the Layout

Instructions:

1. You can take help from **W3School**
2. Write code in your code editor
3. Paste complete file in answer

4. Write internal css so we can test easily.

Design below product card:

Card should be vertically and horizontally on page.

card dimensions:

width: 350px

height: as per content;

Use browser color picker for background color and orange color.

image dimensions: card width

image link:

<https://us.technics.com/cdn/shop/products/sbu-2021-a800-galleryimages-2-211208.png?v=1654793381>

use font:

[Nunito - Google Fonts](#)

use shadow:

0 10px 15px -3px rgb(0 0 0 / 0.1), 0 4px 6px -4px rgb(0 0 0 / 0.1);



~~\$130~~ \$100

9 bought this

Standard Shipping

Buy

```
<!DOCTYPE html>
<html >
<head>
  <title>Document</title>
```

```

<style>
  body{
    background-color: gray;
  }
  .box{

    height: 800px;
    width: 500px;
    border: 1px solid rgb(190, 35, 35);
    border-radius: 20px;

    background:white;
    box-shadow: 0 10px 15px -3px rgb(0 0 0 / 0.1), 0 4px 6px -4px rgb(0 0 0 / 0.1);
  }
  button{
    background-color:orangered;
    font-size: 50px;
    border-radius: 50px;
    border-width: 1px;
    width: 300px;
    height: 100px;
    margin-left: 80px;
    margin-bottom: 9px;
  }
  .old{
    text-decoration: line-through;
    font-size: 50px;
    color: grey;
  }
  .new{
    font-size: 50px;
  }
  p{
    color: grey;
    font-family: Bold 700;
    font-size: 20px;
  }
</style>
</head>
<body>
  <center><div class="box">
    <figure>
      
    </figure>
    <span class="old">$130</span> <span class="new">$100</span>
    <p>9 Bought this <br>
    <br>Standard Shipping</p>
  </div>
</body>

```

```
<button>Buy</button>  
</div></center>  
</body>  
</html>
```

Design products grid:

*

Implement shadow only on hover with transition

maximum grid container should be 1000px;

for shadow use: 0 20px 25px -5px rgb(0 0 0 / 0.1), 0 8px 10px -6px rgb(0 0 0 / 0.1);

On new mode, All items should be in one column,

On tablet mode, 2 items should be in 1 row, so make 2 rows to show 4 items.

On desktop mode, show 4 items in one row as shown in image

(Note: images provided are different from sample output image)

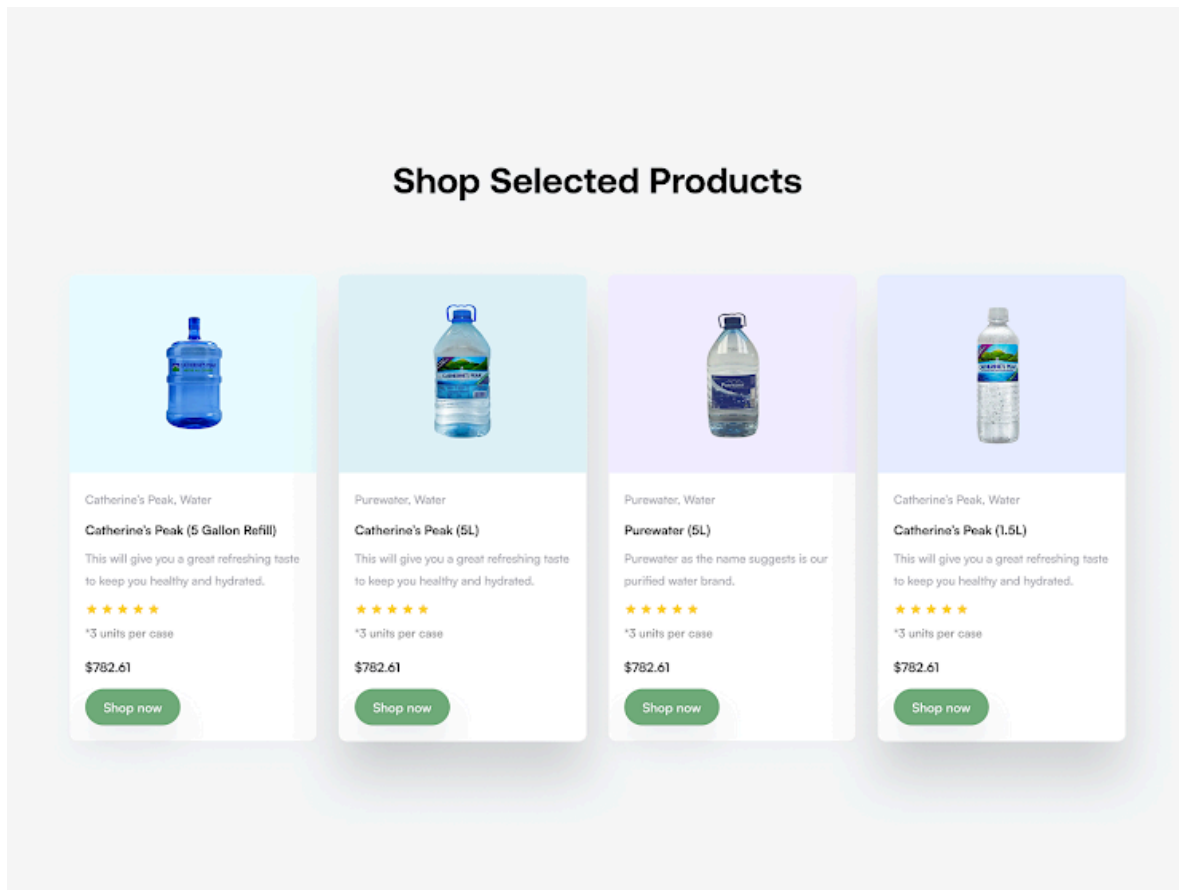
item images:

1- https://media.istockphoto.com/id/1470498904/vector/blank-insulated-water-bottle-isolated-on-white-background-realistic-vector-mockup-stainless.jpg?s=612x612&w=0&k=20&c=diBqN8oYcUcFp4ZDK0FbVQIN0xFtHE0LovKuC_7DnS8=

2- <https://i.pinimg.com/474x/de/18/72/de18721cd220523927df378d0ab59f6f.jpg>

3- <https://i.pinimg.com/474x/bf/e5/0c/bfe50c1012d793fac568ad47147e6c1c.jpg>

4- <https://5.imimg.com/data5/SELLER/Default/2023/9/341912546/LB/KE/NW/196891981/photo-1602143407151-7111542de6e8-500x500.jpg>



```
<!DOCTYPE html>
<html >
<head>
  <title>Document</title>
  <style>
    body{
      background-color: rgba(161, 159, 159, 0.842);
    }
    .box{
      height: 200px;
      width: 200px;
      border: 1px solid;
      box-shadow: 0 20px 25px -5px rgb(0 0 0 / 0.1), 0 8px 10px -6px rgb(0 0 0 / 0.1);
      display: grid;
      grid-template-columns: 1fr 1fr 1fr 1fr;
    }

    @media screen and (min-width:0px) and (max-width:430px) {
      .box
      {
        display: grid;
        grid-template-columns: 1fr ;
        grid-template-rows: repeat(4,auto) ;
      }
    }
  </style>
</head>
<body>
```

```
}
@media screen and (min-width: 430px)and(max-width: 1024px) {
  .box{ display: grid;
    grid-template-columns: 1fr 1fr ;
    grid-template-rows: repeat(2,auto) ;

  }
}
</style>
</head>
<body>
  <div class="box">
    
  </div>
  <div class="box">
    
  </div>

  <div class="box">
    
  </div>
  <div class="box">
    
  </div>
</body>
</html>
```

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Google Forms

