**What is the purpose of the <base> tag in HTML?**

a) It defines the header for the web page.  
b) It specifies the background color for the entire page.  
c) It sets the base URL for resolving relative URLs on the page.  
d) It creates a horizontal line on the page.

Answer: c) It sets the base URL for resolving relative URLs on the page.

**Which of the following elements is commonly placed within the <head> section of an HTML document to specify the character encoding for the page?**

a) <charset>  
b) <encoding>  
c) <meta charset="UTF-8">  
d) <head-charset>

Answer: c) <meta charset="UTF-8">

**How can you link to an external stylesheet using the <link> tag?**

a) <link src="style.css" rel="stylesheet" type="text/css">  
b) <link href="style.css" rel="stylesheet" type="text/css">  
c) <link style="style.css" type="text/css">  
d) <link href="style.css" type="text/css" rel="external">

Answer: b) `<link href="style.css" rel="stylesheet" type="text/css">

**Which <meta> tag attribute is commonly used to improve SEO by providing a brief description of the web page for search engine results?**

a) content  
b) name  
c) description  
d) keywords

Answer: c) description

**How does the text within the <title> element affect search engine optimization (SEO)?**

a) It has no impact on SEO.  
b) It helps search engines understand the content of the page, potentially improving search rankings.  
c) It negatively impacts SEO.  
d) It determines the font size for the page title.

Answer: b) It helps search engines understand the content of the page, potentially improving search rankings.