1. **What are clients?**

Clients are the devices that request and render web content. An example some of the most popular clients include browsers, mobile applications, screen readers, and various content aggregators.

1. **When we type in a URL, the request does not typically go first to the webserver. Where does it go?**

When your browser makes a request, it uses a URL or uniform resource locator to locate the requested content. This request is usually passed on to a domain name server or **DNS**. The DNS then translates the URL into an IP address.

1. **[True or False] In response to a web request, all required files are sent at the same time.**

False

1. **[Critical Thinking] Why is it important to understand DNS when helping a client change hosting companies?**

The DNS technology takes the domain name that we are familiar with and determines its IP address from the large database. Mostly, it is also referred to as the “Phonebook of the Internet” which shows how important it is. Mostly, DNS ensures the internet is not only easy to use but also works smoothly whatever content we ask for.

1. **Which layer has protocols like HTTP, FTP, and SMTP?**

The application layer has protocols like HTTP, FTP, SMTP, DNS, and Telnet.

1. **What does the author mean when he says HTTP is a stateless protocol?**

HTTP is called a stateless protocol as every request is executed on an independent level without knowing the requests that have been made prior to it.

1. **[Critical Thinking] What is the purpose of a subdomain?**

The subdomain is a domain that is a part of a larger domain under the DNS hierarchy. It is crucial it helps to easily create a more memorable Web address for specific or unique content with a website.

1. **Which rendering engine is based on WebKit and used under the hood to develop Chrome?**

Blink is the rendering engine that is based on WebKit and applicable under the hood in order to develop chrome.

1. **[Critical Thinking] Why are web standards important to web developers?**

The Web is a free and open-source of information, It is therefore extremely important that all information is accessible to all users regardless of their way of accessing the Web. The following are some reasons web standards are important to web developers:

* Easier to Maintain
* Ensure Backwards Browser Compatibility
* Increase Search Engine Rankings

1. **[Critical Thinking] What is the LAMP stack?**

The LAMP stands for Linux, Apache, MySQL, and PHP, and all together, they provide a proven set of software for delivering high-performance web applications. All of these components contribute essential capabilities to the stack.

1. **[Critical Thinking] Why is it important to know what stack is being used by your host?**

The concept of technology stacks is important as the commonly used ones are tried and true; there is a good deal of expertise and documentation available on how to set them up properly to ensure security and high performance. In some technology stacks, the pieces are specifically designed to work together.