**Question 1**

(i) State whether each of the following statements is true or false. If the statement is false, explain why.

1. Cascading Style Sheets 3 (CSS3) is used to specify the presentation, or styling, of elements on a web page (e.g., fonts, spacing, sizes, colors, positioning).

**True.**

1. Ensuring a consistent look and feel on client-side browsers is one of the great challenges of developing web-based applications.

**True.**

1. An HTTP request typically posts (or sends) data to a server for updating stored data on the server.

**False.**

**Because an HTTP post request posts data to a server-side form handler**

**that processes the data. And a post request typically posts (or sends) data**

**to a server.**

1. Client-side scripts often can access the server’s file-directory structure.

**False. It is server-side scripts often can access the server’s file directory**

**structure.**

(ii) Fill in the blanks in each of the following statements:

1. \_\_\_**IPv6**\_\_\_ is the next-generation Internet Protocol that features built-in security and a new addressing scheme, significantly expanding the number of addresses available.
2. HTML documents normally contain\_\_**hyperlinks**\_\_, which, when clicked, load a specified web document.
3. A \_\_\_**URL**\_\_\_ contains information that directs a browser to the resource that the user wishes to access; \_\_**Web servers**\_\_ make such resources available to web clients.
4. The two most common HTTP request types are \_\_**get**\_\_ and \_\_**post**\_\_.
5. Web-based applications are multitier applications. The \_\_**bottom tier**\_\_ (also called the data tier or the information tier) maintains the application’s data and typically stores data in a relational database management system. The \_\_**middle tier**\_\_ implements business logic, controller logic and presentation logic to control interactions between the application’s clients and its data. The \_**top tier**\_, or client tier, is the application’s user interface, which gathers input and displays output.
6. \_\_**Android**\_\_, the fastest growing mobile and smartphone operating system, is based on the Linux kernel and Java.

(iii) Describe the difference between client-side programming and server-side programming.

**Client-side programming technologies are used to build web pages and applications that are run in the web browser on the client’s device.**

**Server-side programming are the applications that respond to requests from client-side web browsers.**