**Assignment No-01**

**Assignment Topics : HTTPS/HTTP, Domain/ Hosting,IP addresses , Static IP and Dynamic IP**

**Class Name : Web design and Development**

**Batch : J13**

**Question No :1**

**What is difference HTTP and HTTPS .?**

**HTTP :**

HTTP means Hypertext transfer protocol. HTTP is a client-server protocol by which two machines communicate using a reliable, connection-oriented transport service such as the TCP.

HTTP protocol used by the world wide and this protocol defines how messages are formatted and transmitted, what action web server and browser I should take in respons to various commands.it is unsecured protocol. It does not required any validation.it has a simple address bar.it can be hacked.

**HTTPS:**

Hyper text transfer protocol(HTTPS) is the secure version of HTTP the protocol over which data is sent between our browser and the website that we are connected to.

The S at the end of HTTPS stands for secure.it means all the communication between our browser and the website are encrypted.

HTML is used in online banking and online shopping.it can’t be attacked by hackers. It has padlock that show that is SSLenable secure website.it require validation like domain verification and document verification depends on SSL types.

**Question No-02**

**What is domain and hosting.?**

**Answer :**

**Domain**

Domain is used to manage all user functions including username and password and shared system resource.

A domain is also used to assign specific resources privileges such as user accounts.

**Hosting :**

A website hosting service is a type of internet hosting service that allows individuals and organizations to make their website accessible via the world wide web, we host are companies that provides data center space and connectivity to the internet for other server located in their data center.

**Question No-3**

**What is IP addresses ?**

**Answer :**

An **Internet Protocol address** (**IP address**) is a numerical label assigned to each device connected to a [computer network](https://en.wikipedia.org/wiki/Computer_network) that uses the [Internet Protocol](https://en.wikipedia.org/wiki/Internet_Protocol) for communication. An IP address serves two main functions: host or network interface [identification](https://en.wikipedia.org/wiki/Identification_(information)) and location [addressing](https://en.wikipedia.org/wiki/Network_address).

**Question No-04**

**What is difference between static IP and Dynamic IP.?**

**Answer :**

**Dynamic IP**

A dynamic state website can contain client side scripting or server side scripting to generate the changing content or a combination of both scripting types. User can make changes .

dynamic IP can be configured using DHCP.  There is low risk regarding dynamic IP address.

in case of dynamic IP address the tracking of the device is difficult as the IP address is always changing.

**Static IP**

The static IP is fixed which means it could not be changed until the user wants to change it. Static IP is configured by the ISP (Internet Service Provider). The associated risk of website hacking is large in static IP address as it is always constant. When the device is configured with static IP address, it can be tracked