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Course :- Programming Laboratory - 3.

Class :- TY CSE.

Problem Statement :-

Study and describe the following concepts in your words.

1. Client :-

Ans:- ① In case of web application, a client is typically referred to the web browser in the user's machine or mobile device.

② It may also refer to extensions and helper applications that enhance the browser to support special services from the site.

2. Server

Ans:- ① In case of web server, it can refer to hardware or software, or both of them working together.

② On the hardware side, a web server is a computer that stores web server software & a website's component files. (Eg. HTML docs, images, CSS stylesheets etc.).

③ On the software side, a web server includes several parts that control how web users access hosted files. At a minimum, this is an HTTP server.

### 3. Communication

- Ans:-
- ① Communication is one of the foundational elements of a good website.
  - ② It is essential for a positive user experience and for a successful website that truly benefits its owners.
  - ③ All types of websites are affected by the need for good communication in one way or another.
  - ④ Because of significance of communication with visitors, it is an essential consideration for every designer & website owner & the responsibility of both.

### 4. Protocols

- Ans:-
- ① A protocol is a system of rules that define how data is exchanged within or between the computers.
  - ② Communications between devices require that the devices agree on the format of the data that is being exchanged. The set of rules that defines a format is called a protocol.
  - ③ Eg. TCP, HTTP, etc.

### 5. Ports

- Ans:-
- ① For a computer connected to a network with an IP address, a port is a communication endpoint.
  - ② Ports are designated by numbers, and below 1024 each port is associated by default with a specific protocol.
  - ③ Eg. Default port for the HTTP protocol is 80 & for the HTTPS protocol is 443, so a HTTP server waits for requests on those ports.



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6. Network

- Ans:-
- ① Internet business would not exist without a computer network.
  - ② Computer network is a set of computers sharing resources located on or provided by network nodes.
  - ③ The computers use common communication protocols over digital interconnections to communicate with each other.
  - ④ These interactions are made up of telecommunication network technologies, based on physically wired, optical, and wireless radio-frequency methods that may be arranged in a variety of network topologies.

