

Assignment 1.

1. Whenever you type some URL in a browser's address bar and hit enter, a lot of activities occur behind the scenes including finding the correct server and obtaining the required documents from it. Now explain all of the behind the scene activities in detail.

Or

What happens if you enter <https://pu.edu.np> into your browser? Describe the procedures behind the screens. Describe along with its block diagram.

2. To make an online presence or just transfer any data there are certain predefined rules to follow. Explain any 5 such commonly used protocols that serve different purposes of their own.
3. Explain about www and internet. How is domain name conversion carried out?
4. Differentiate between the Web and the Internet.
5. Write short notes on a Fully Qualified domain name with examples.
6. What is a web browser? Differentiate between FTP and HTTP.
7. Differences between SMTP and POP.
8. Differences between URI and URL.
9. Differences between LAN, MAN, and WAN.
10. What is MIME? Explain its headers.
11. Explain the evolution of the internet and the web.
12. Explain CMS (Content management system)
13. What is tier technology? Explain 1,2,3, and N tier technology with their differences.
14. Why HTTP is called Stateless and connectionless?
15. The company wants to convert its website from HTTP to HTTPS by seeing other websites but is unknown about its advantages. By explaining its advantages, how would you convert its website from HTTP to HTTPS?
16. Differences between the Internet, Intranet, and extranet.
17. What is web architecture? Explain different types of web architecture.
18. What are web standards? Explain any 3 web standards. What are the advantages of using web standards?
19. Explain Client-server operation in detail with the necessary diagram.
20. Web browser and Web server for internet explain.
21. What is the impact of the Web in today's world?

22. Let us assume a scenario where person 'A' sends an email to person 'B' and person 'B' responds to person 'A'. Now explain the sending and receiving process of email.
23. How to register a domain name? Differentiate top-level and second-level domains.
24. Write short notes on
 - a. WAP
 - b. IMAP
 - c. Centralized and distributed system
 - d. Domain Name system.
 - e. Web hosting
25. What is a web application? Explain its characteristics, needs, pros and cons.
26. Write short notes on architecting web applications.
27. What are the Best Practices for Good Web Application Architecture?
Explain
28. Explain about Architectural issues of web layer.