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Subject: Computer Network

Assignment # 1

Q:1:a)
What are web Cookies?

Ans:

Cookies are text files with small pieces of data, like username and password, that are used to identify your computer as you use your a computer network.

Q:1:b)
Discuss their importance in term of Computer Network?

Ans:

As the main purpose of cookie is to identify users and possibly prepare customized web pages or to have site login information for you. For example, if a website like stackoverflow did not use cookies to remember login information of user, then the user should have to send login information everytime to the network to load the website.

Q:1: c)

What are advantages & disadvantages of cookies?

Ans:-

Advantages	Disadvantages
→ Cookies are simple to use & implemented.	Users can delete a cookies.
→ They occupy less memory, they do not require any server resources and are stored in user's computer.	Complex data are not allowed, It only allow text content.
→ By using cookies, the user didn't have to enter login info again and again.	They are harmful, when some third party keep a track on you.

Q:2: a)

What are web cashe?

Ans:

Is an activity of storing data for reuse, such as copy of a web page served by a web server. It is cached or stored first time, user visit the page, next time, user request same page, a cache will serve the copy.

Q:2:b) Why they are use?

Ans:-

Without a proper web cache, everytime a user makes a request, the response must come all the way from origin server. When many users are requesting at same time, response time increase and server overload may occure. to reduce it we use web cache.

Q:2:c) How it works?

Ans:-

Whenever we download anything from origin server, its copy is stored in the web cache for a set of time. When the user download again the same content, then cache will send the stored content and request will not send to server.

Q:2:d) Discuss advantages & disadvantage?

Ans:-

Advantage of web cashe is faster delivery of web objects, reduce load on website server, It benefit the user.

Disadvantage: It occupied the memory on your disks, the more you visit different sites, the more the cache occupy the memory, and fill your disk.

a) What is a proxy server?
=> A proxy server provides a gateway b/w users and internett. It goes b/w end-users and web pages.

b) Why are they use?
=> They are used, because they provide varying levels of functionality, security and privacy on your use case and needs.

c) How it works?
=> It is basically a PC on internet, which have its own IP address that your computer knows. When you send request, the request goes to proxy sever, which then gets respose from webserver and then forward page to your computer.

d) advantages & disadvantges?
=> Enhance security, can act as firewall b/w your system & internet. is an advantge.
Disadvantage: Tracking, the cache deta including passwords. Security is inscure, Cost is more and configurations are disadvanges.

Q:3: VPN?
Ans:-

_____ is the easiest and most effective way for people to protect their internet traffic and keep then. identities private online.
As you connect to secure VPN server your internet service goes through an encrypted tunnel that nobody can see into, including hackers, goverments etc.