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CMPS 413

HW2

- P1a.) False
- P1b.) True
- P1c.) False
- P1d.) False
- P1e.) False

P3.) TCP for HTTP and UDP for DNS are needed in transport layer protocols.
DNS and HTTP are needed for application layer protocol.

- P4a.) /cs453/index.html
- P4b.) HTTP/1.1
- P4c.) Persistent
- P4d.) Ip address is not given in the HTTP GET message.
- P4e.) Mozilla/5.0

- P5a.) It did find the document("200 OK"). It was found Tuesday, 07 Mar 2008 12:39:45GMT
- P5b.) Saturday 10 Dec 2005 18:27:46 GMT
- P5c.) 3874 Bytes
- P5d.) <!doc.

P7.) $2RTT_0 + (RTT_1 + RTT_2 + \dots + RTT_n)$

P14.) SMTP uses a period ('.'). HTTP can't use the same method because there isn't a specific mark at the end of the message body for HTTP.

P20.) Use snapshots of DNS cache to count the number of requests for each web server to determine the most popular ones.

P22.)

	10	100	1000
300 Kbps	7680	25906	47569
700 Kbps	7680	15616	21525
2 Mbps	7680	7680	7680

- P23a.) NF/U_s
- P23b.) F/d_{\min}
- P23c.) $D_{cs} = \max\{NF/u_s, F/d_{\min}\}$

- P24a.) F/u_s
- P24b.) $NF/(u_s + u)$
- P24c.) $D_{p2p} = \max\{F/u_s, NF/(u_s + u_1 + u_2 + \dots + u_N)\}$