Collin Varisco

C00304484

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.) 2RTT0 + (RTT1 + RTT2 + … + RTTn)

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/Us

P23b.) F/dmin

P23c.) Dcs=max{NF/us , F/dmin}

P24a) F/us

P24b.) NF/(us+u)

P24c.) Dp2p = max{F/us , NF/(us + u1 + u2 + … +uN)}