

Solution Quiz#2(5K)

MCQ's

1. b
2. b
3. c

T/F

1. F
2. T

Q2. Solution:-

(a) Non-persistent = 4 HTTP requests (One for each of the four objects), persistent without pipelining = 4 HTTP requests, persistent with pipelining = 2 HTTP requests

(b) $2RTT + T = 2RTT + [L / \min(R_{DSL}, R_{LAN}, R_{ACCESS\ LINK})]$ i.e. $(2 * 150ms) + (10K * 8 / 100K) = 300ms + 800ms = 1100ms = 1.1\ s$

(c) $(4 * 2 RTT) + T = 8 RTT + (L_{BASE} / \min(R_{DSL}, R_{LAN}, R_{ACCESS\ LINK})) + [L_{1ST\ object} / \min(R_{DSL}, R_{LAN}, R_{ACCESS\ LINK})] + [L_{1ST\ object} / \min(R_{DSL}, R_{LAN}, R_{ACCESS\ LINK})] + [L_{1ST\ object} / \min(R_{DSL}, R_{LAN}, R_{ACCESS\ LINK})]$ i.e. $[4 * 2 * 150ms] + [(10K + 20K + 30K + 15K) * 8 / 100k] = 7200ms = 7.2\ s$