1) 14 msec

=> prop delay: 2500km / (2.5x10^8 m/s) = 0.01 sec

transmission delay: 8000 bits / (2x10^6 bps) = 0.004

total delay = 0.004 + 0.01 s

2) : a) R1/500kbps b) 64s c) 320s

=> a) slowest link = throughput

b) 4M bytes

32M bits / 500kbps = 64s

c) 4M bytes

32M bits / 100kbps = 320s

3) False

4) d. fiber optic cable

5) False

6) 2

7) b. circuit switching

8) Enter-deep, Bring home(any suitable description is fine)

9) a. 301

10) b. If-Modified-Since

11) d. TLD

12) n+1. 1 as "Welcome socket" + n for different client

13) False

14) packet loss/timeout/packet not received/no reponse etc.

15) False

16) d. packet loss

17) 11010001