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**R1: What is the difference between a host and an end system? List the types of end systems? Is a Web server an end system?**

A host and an end system are terms that are used interchangeably meaning that a host is an end system.

The types of application programs that run are web browser programs, web server programs, and e-mail readers and senders. So Yes a web server is an end system.

**R4: List six access technologies. Classify each one as residential access, company access or mobile access**

Cable Modems -> Residential Access

Digital subscriber Line -> Residential Access

Hybrid fiber-coaxial cable -> Residential Access

Ethernet Technologies -> Company Access

Wireless LAN -> Wireless Access

Bluetooth -> Wireless Access

**R8: What are some physical media that Ethernet can run over?**

Ethernet can use twister pair and coaxial.

**R11: What advantage does a circuit-switched network have over a packet-switched network? What advantages does TDM have over FDM in a circuit-switched network?**

Circuit-switched networks have a huge overhead that is created to make sure that message is delivered. In contrast the packet-switched networks are very quick but do not offer the guarantee. TDM allows all the bandwidth to be used for a short period of time. This is very versatile for burst packet sending.