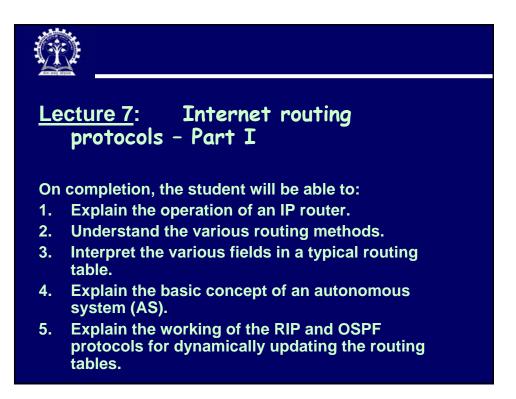
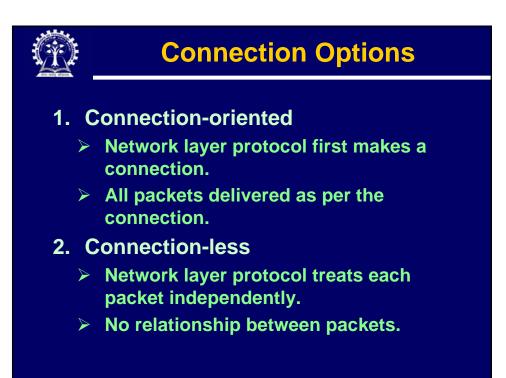
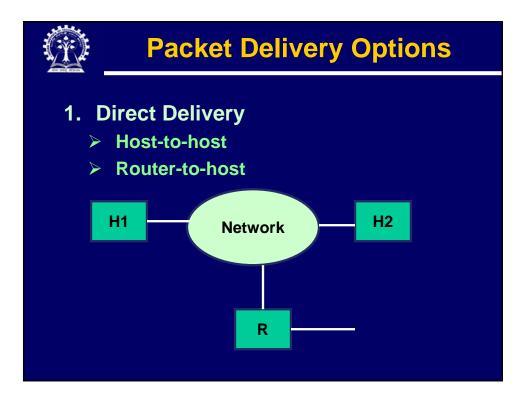


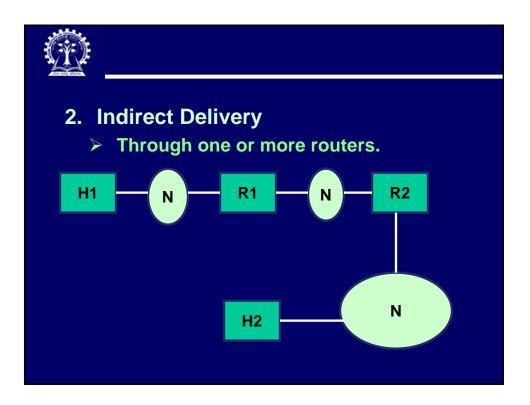
Internet Routing Protocols – Part I

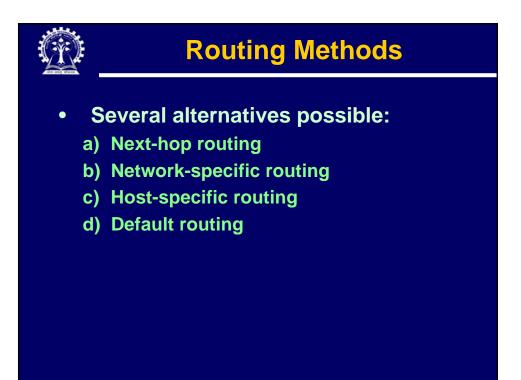
Prof. Indranil Sen Gupta Dept. of Computer Science & Engg. I.I.T. Kharagpur, INDIA

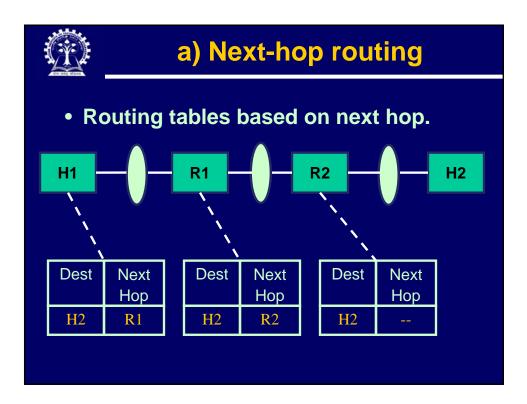


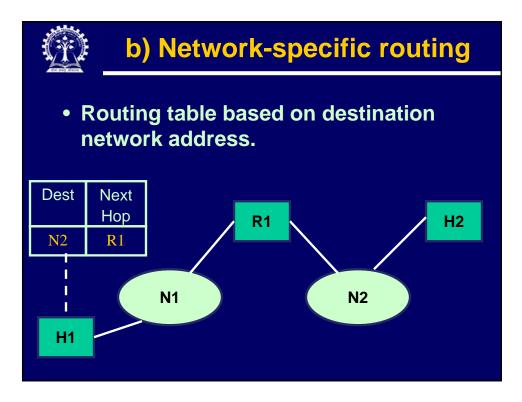


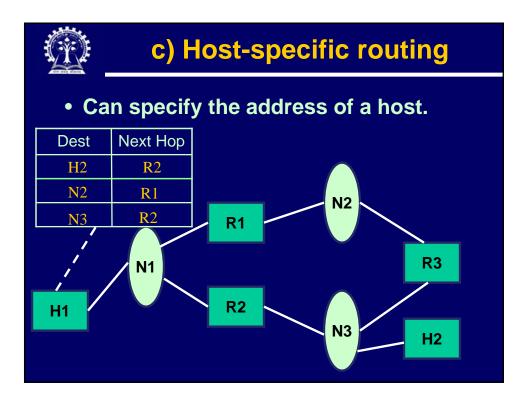


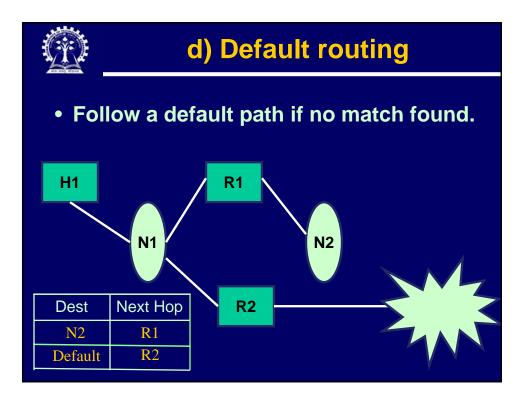








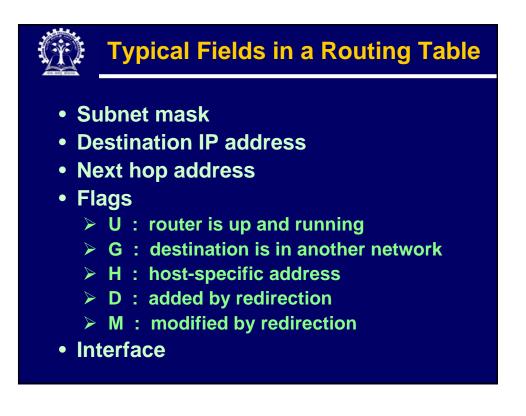


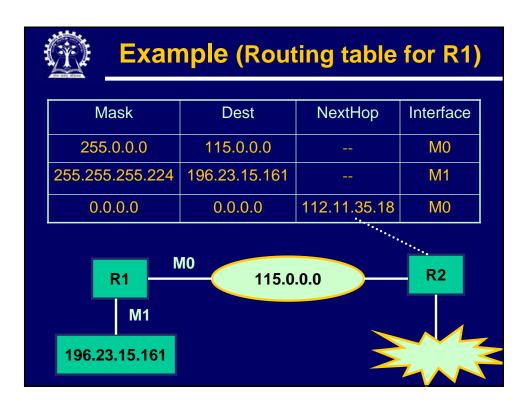


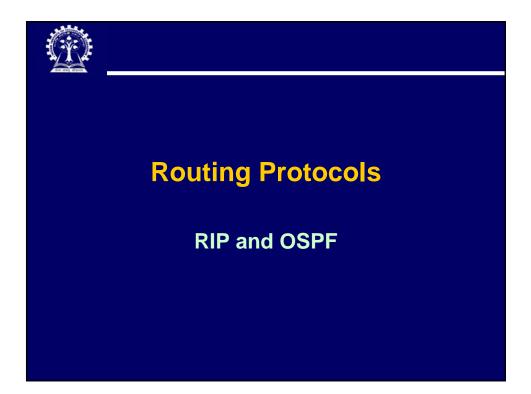


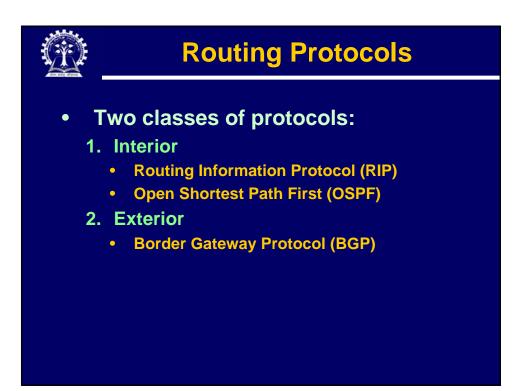
1. Static

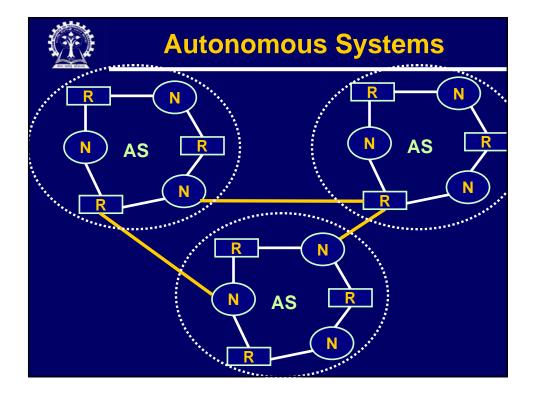
- Contains information inserted manually.
- > Does not change with time.
- 2. Dynamic
 - Updated periodically depending on network condition.
 - Uses protocols like RIP, OSPF, BGP, etc.

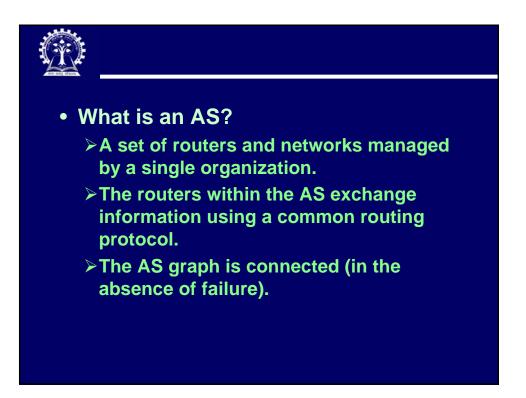


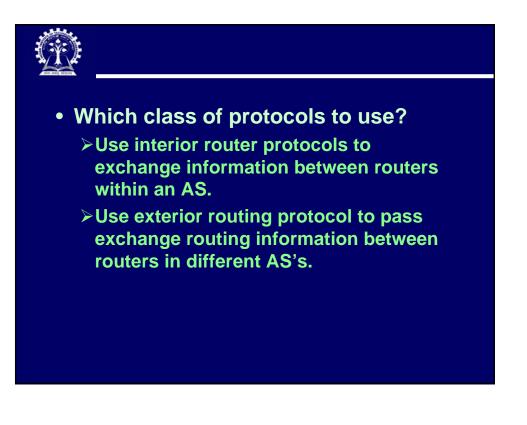






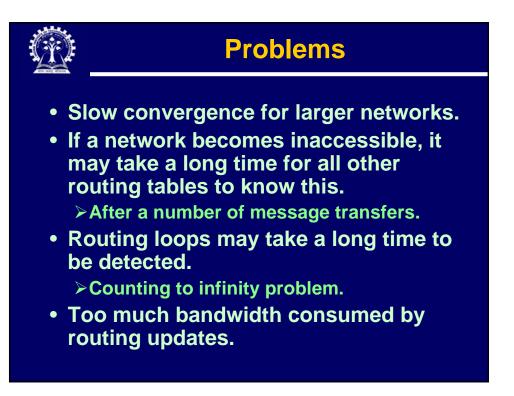


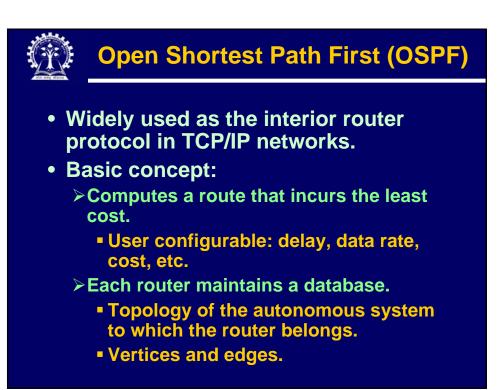


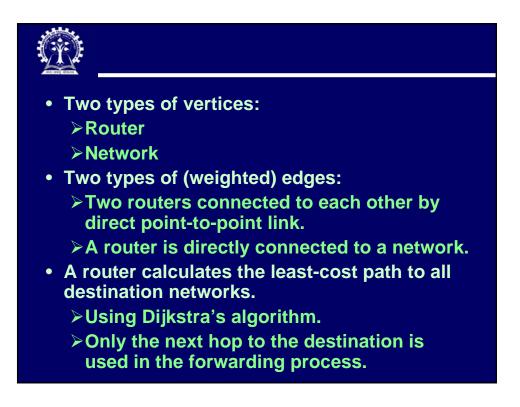


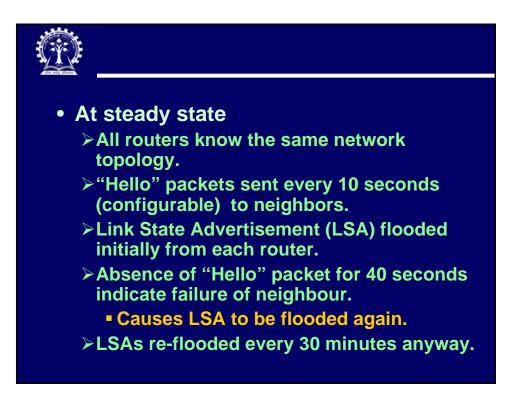


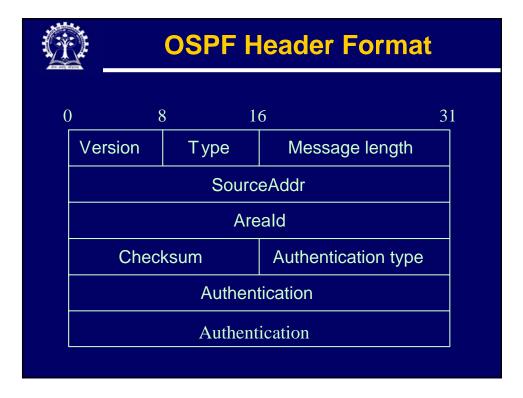
- Routers within an autonomous system exchange messages.
 - Distance vector routing using hop count.
 - Table entries updated using values received from neighbors.
 - > Maintain timers to detect failed links.
 - >Used in first generation ARPANET.

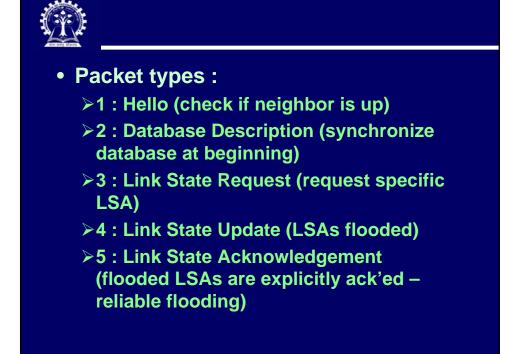


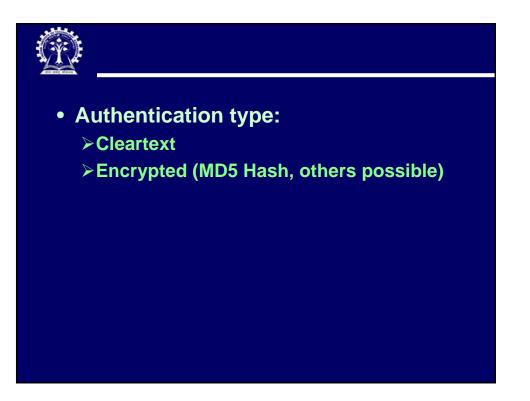


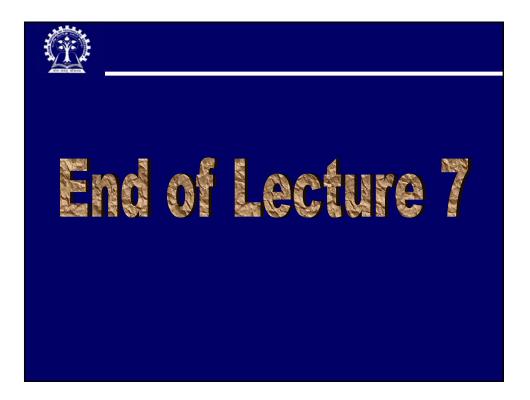


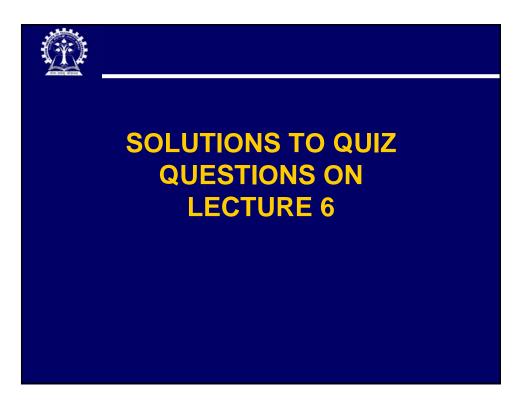


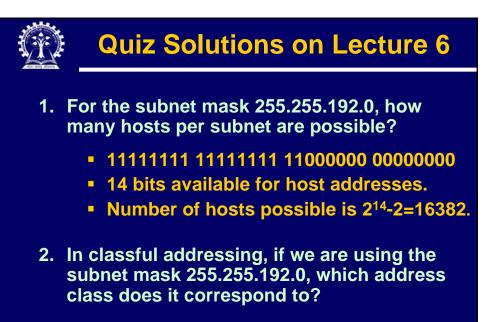




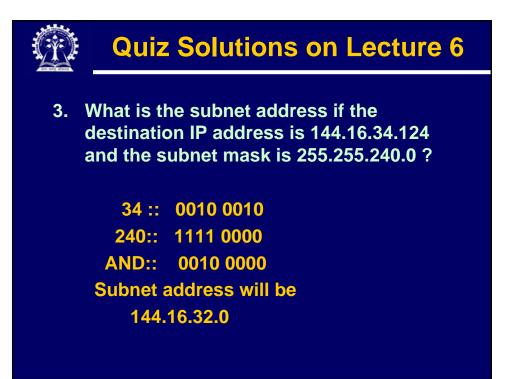


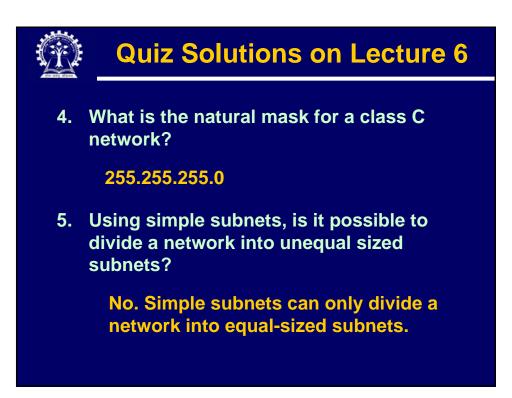


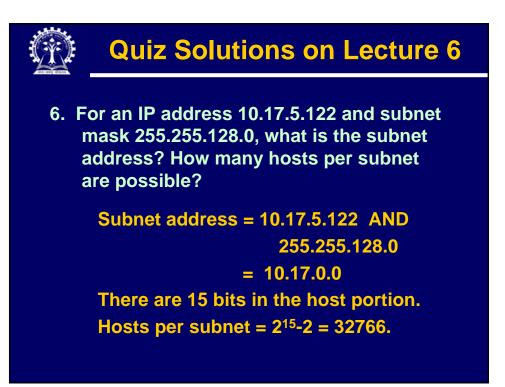


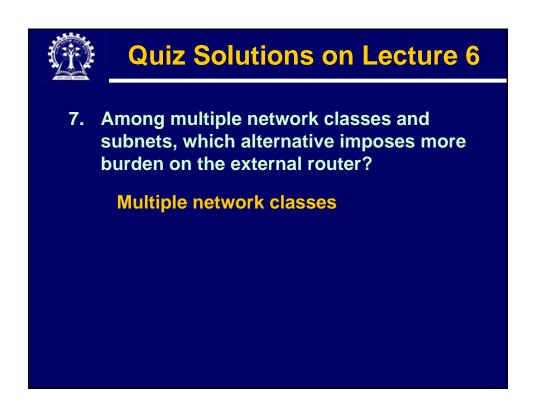


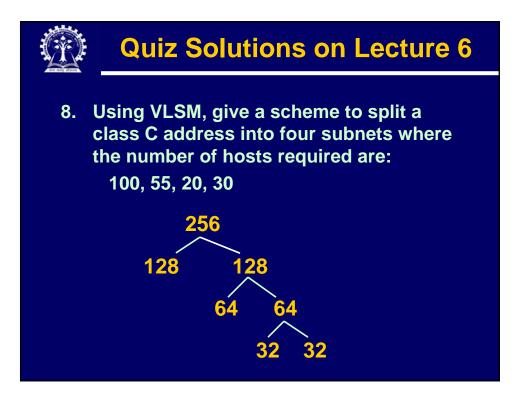
• Either Class A or Class B.

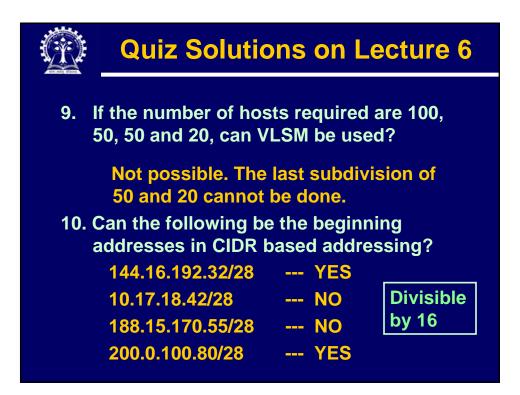


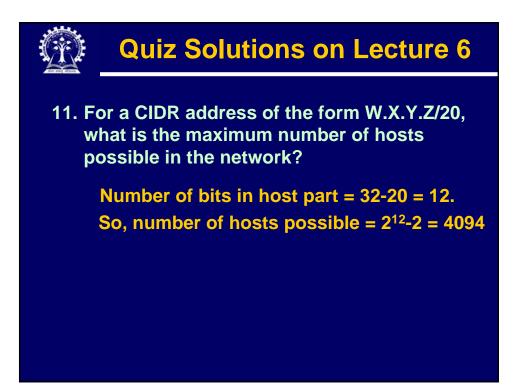


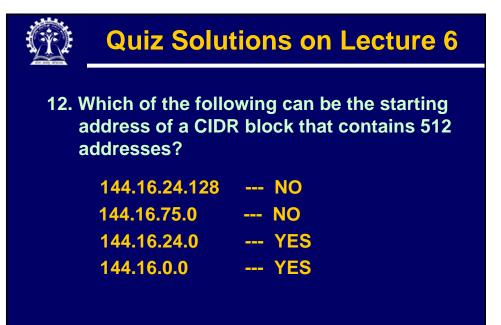


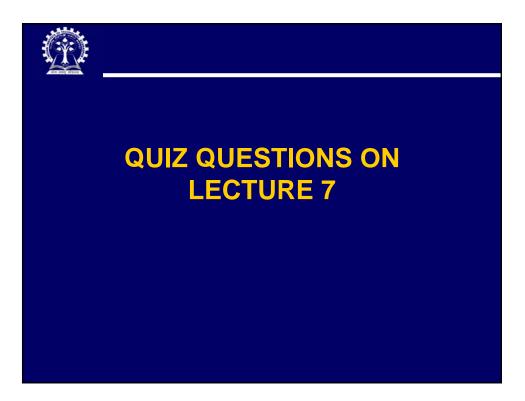














- 1. What is a connection-oriented protocol?
- 2. What is a connectionless protocol?
- 3. What is the difference between direct and indirect packet delivery options?
- 4. How is the default route specified in the routing table?
- 5. What is the problem if we use only hostspecific routing and no network-specific routing?

