i341 - Week 6-7 Network & Distributed Apps Questions

1) Describe ARP – describe 2 instances when it would be used ?

2) What is TCP SYN, ACK – what layer is this happening at ?

3) Why is TCP doing error checking – when also done at layer 2, some extent 3 ?

4) In a shared LAN segment, every device sees what type of data traffic (OSI layers) ?

5) How in LAN switches are each port a Separate Ethernet – collision domain?

6) Distinguish Blocking vs non-Blocking LAN Switches.

7) How is latency impacted by blocking vs non-blocking switches ?

8) During a broadcast storms what happens to interfaces behind a LAN switch ?

9) How does flooding help a transparent learning bridge/switch help create the bridge table ? What is stored ?

10) Describe how IP secondary addresses are used – any when/why ?

11) What is IP aggregation and what benefit does it provide – what dependencies to make it work ?

12) What is variable length subnet masking VLSM – why important ?

13) Contrast Public and Private IP address spaces/blocks.

14) What is a VLAN trunk, and a VLAN tag ?

15) Describe spanning tree, and how/where used. Would you ever see in a data center ?