True/False

1. False. Same IPs can only exist on devices that are not reachable.
2. True. MAC addresses are uniquely assigned to each device in most cases.
3. False. TCP lies in transport layer (4), while IP lies in network layer (3). [The “is” in the question should be replaced with “and.”]
4. False. Switches have MAC address table and do transmission for each port, while hubs don’t.
5. False. Routers can send packets according to headers in layer 3, but switches can’t.
6. True.
7. False. DHCP servers only assign IPs. [The question has two consecutive “the”s, a typo I think.]
8. False. Traffic with destinations inside the LAN doesn’t pass through their gateways.
9. False. The max number of NAT entries is limited by max available port, usually about 2^{16}.
10. True.

Multiple Choice

1. (A)CD
2. CD
3. C
4. _
5. C
6. _
7. B
8. B