



WEEK 4 REVIEW PART II

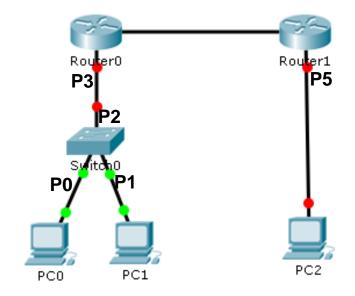
Q1. A PC has IP Address: 25.10.45.21 and Mask: 255.255.255.0 Which one of the following host IP Addresses is in the same network segment?

- A) 25.10.46.21 with Mask 255.255.25.0
- B) 25.10.45.0 with Mask 255.255.255.0
- C) 25.10.45.37 with Mask: 255.255.255.0
- D) 0.10.45.21 with Mask 255.255.255.0



Q2. PC0 needs to send a frame to PC1. PC0 broadcasts an ARP request to learn the MAC address of which device?

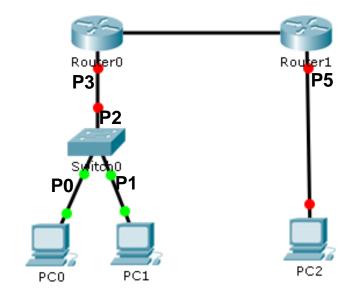
- A) Interface at Switch0, port P0
- B) Interface at PC1
- C) Interface at Router0, port P3
- D) Interface at Switch0, port P1





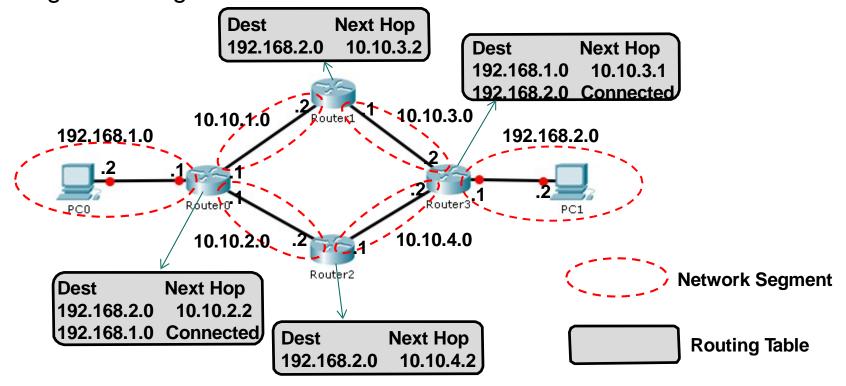
Q3. PC0 needs to send a frame to PC2. PC0 broadcasts an ARP request to learn the MAC address of which device?

- A) Interface at Switch0, port P0
- B) Interface at PC1
- C) Interface at Switch0, port P1
- D) Interface at Router0, port P3





Q4. For the network diagram and routing tables, what path is taken by a message travelling from PC0 to PC1? All Masks are 255.255.25.0.



- A) Router0, Router1, Router3, PC1
- B) Router0, Router1, Router2, Router3, PC1
- C) Router0, Router2, Router3, PC1
- D) Router3 goes back to Router1 so the packet will loop

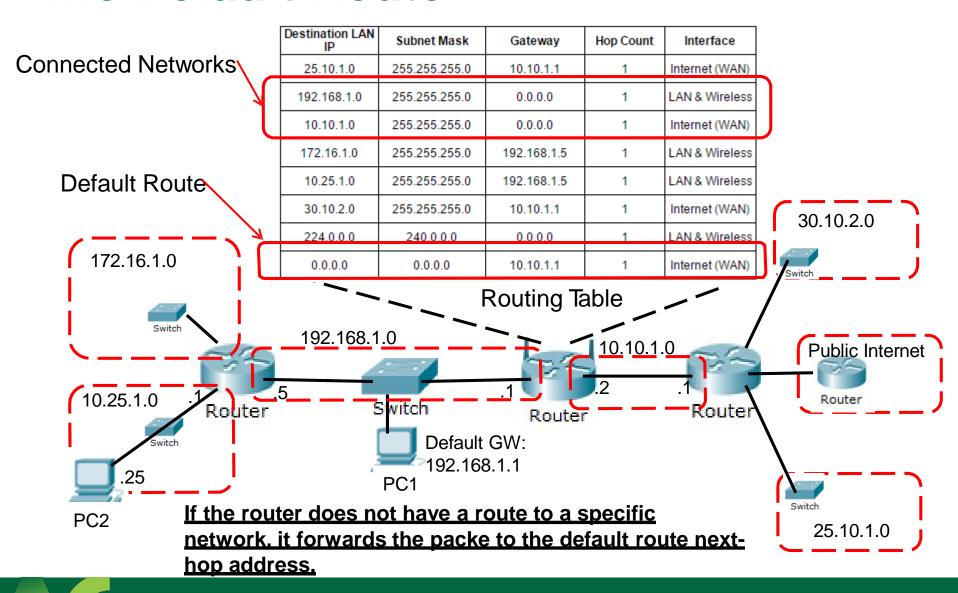
 ANSWER ON LAST SLIDE



- Q5. What is the difference between a default gateway and default route?
 - A)An end device (i.e. PC) uses the default gateway whereas a router uses a default route
 - B) An end device (i.e. PC) uses the default route whereas a router uses a default gateway
 - C) Both terms are used inter-changeably
 - D)An end device (i.e. PC) uses the default gateway whereas a router and an Ethernet Switch use a default route



The Default Route





- Q6. IP Packet Transport is Connectionless. What does this mean?
 - A)The source IP device does not get any indication that the destination IP device received the packet.
 - B) There has been a break in the connection between the source IP device and destination IP device.
 - C)Packets sent between the source and destination IP nodes use the Connectionless Protocol.
 - D) The source and destination IP devices are not necessarily connected via direct link.



- Q7. Several Packets arrived out of order. How does IP (Internet Protocol) correct this?
- A) IP uses the Sequence Number field in the IP Header to reorder the Packets.
- B) IP does not correct this; however, this function is provided by TCP at the Transport Layer.
- C) IP Packets cannot become mis-ordered because all Packets between two given devices follow the same Routing Tables.
- D) The Application is responsible for reordering the Packets.



Q8. What is the purpose of the TTL field in the IP Protocol header?

A)TTL is not a networking term.

B)It is the Time-to-Live field and it prevents a Packet from looping for ever due to routing table errors. It is decremented at each switch and router.

C) TTL is a routing protocol to allow routers to discover the path to other networks.

D)It is the Time-to-Live field and it prevents a Packet from looping for ever due to routing table errors. The TTL is decrement at each router.



Answers

Q1: C

Q2: B

Q3: D

Q4: C

Q5: A

Q6: A

Q7: B

Q8: D