MC questions for Unit 7

Question 1

Which station characteristic(s) can be used to group stations into a VLAN? *Check ALL correct answers.*

- [x] Port number
- [ ] Operating system
- [x] IP address
- [x] MAC address

Question 2

In a VLAN, the stations are separated into groups by _____.

A. physical methods
B. software methods
C. switches
D. routers

Question 3

Which of the following statement is true of a wireless LAN?

A. Communication between devices may occur only via an access point.
B. Communication between devices may occur only in ad-hoc mode.
C. Communication between devices may occur via an access point or in ad-hoc mode.
D. None of the above.

Question 4

Which of the following standards has the lowest bit rate?

A. 802.11a
B. 802.11b
C. 802.11g
D. 802.11n

Question 5

Which of the following standards has the highest bit rate?

A. 802.11a
B. 802.11b
C. 802.11g
D. 802.11n

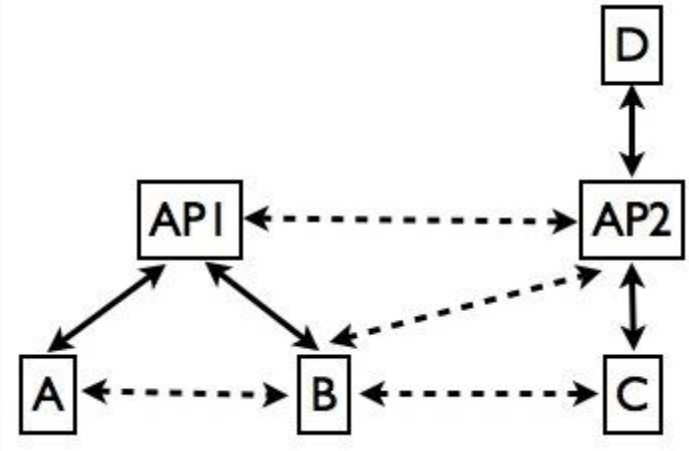
Question 6

In an 802.11 LAN, suppose that nodes A and B, who can hear transmissions from each other, send to the one AP to which they are both connected at the same time. *Which of the choices below best describes this situation?*

- Hidden terminals
- A collision
- Spatial reuse
- Exposed terminals

Question 7

Consider the scenario shown below. Solid lines indicate the ONLY way traffic is sent that you may consider, i.e., only between hosts and the APs to which they are connected. Dashed lines indicate all the other pairs of nodes that can hear each other in this network.



Which statements concerning hidden terminals and other failures of carrier sense to avoid collisions hold for this network? Check ALL statements that are TRUE. Consider only connectivity, not details of 802.11 or MACA protocols.

- [x] Host D and AP1 can send together and collide at AP2
- [ ] B and C are hidden terminals sending to AP2
- [ ] AP1 is a hidden terminal.
- [x] Host C and AP1 can send together and collide at B