Wi-Fi Assessment Test (M1 Students) – Group 2 (With Answers After Each Question)

Multiple-Choice Questions (MCQ)

Q1. Which IEEE standard corresponds to Wi-Fi 6?

(a) 802.11n
(b) 802.11ac
(c) 802.11ax
(d) 802.11g

Answer: 802.11ax (0.25Pt)

Q2. Which device broadcasts the Wi-Fi network name?

(a) The switch
(b) The router / access point
(c) The modem only
(d) The repeater only

Answer: The router / access point (0.5Pt)

Q3. Which protocol is responsible for securing modern Wi-Fi communications?

(a) WEP
(b) WPA
(c) WPA2
(d) WPA3

Answer: WPA3 (0.5Pt)

Q4. What happens when two neighboring Wi-Fi networks use the same channel?

(a) Both networks become faster
(b) One of the networks stops working
(c) Interference increases and performance decreases

(d) Nothing happens; channels do not affect performance

Answer: Interference increases and performance decreases (0.5Pt)

Q5. Which of the following is TRUE about 2.4 GHz vs 5 GHz frequency bands?

(a) 2.4 GHz has more non-overlapping channels than 5 GHz
(b) 5 GHz usually offers higher speed but shorter range
(c) 2.4 GHz is only used in old devices
(d) 5 GHz cannot pass through walls

Answer: 5 GHz usually offers higher speed but shorter range (0.5Pt)

Q6. Which Wi-Fi interface mode allows a card to capture all frames without associating?

(a) Managed mode
(b) Monitor mode
(c) Master mode
(d) Ad-hoc mode

Answer: Monitor mode (0.5Pt)

Q7. Which Wi-Fi interface mode allows a computer to act as an access point?

(a) Monitor mode
(b) Managed mode
(c) Master mode
(d) Mesh mode

Answer: Master mode (0.5Pt)

Q8. Which protocol is a link-state routing protocol?

(a) RIP
(b) BGP
(c) OSPF
(d) EIGRP

Answer: OSPF (0.25Pt)

Q9. Which routing protocol exchanges complete topology information with all neighbors?

(a) Distance-vector protocols
(b) Link-state protocols
(c) Path-vector protocols

(d) Static routing

Answer: Link-state protocols (0.25Pt)

Q10. Which algorithm is used by OSPF to compute shortest paths?

(a) Bellman–Ford algorithm

(b) Dijkstra's algorithm

(c) Kruskal's algorithm

(d) Flooding algorithm

Answer: Dijkstra's algorithm (0.25Pt)

Q11. Which of the following is TRUE about distance-vector routing protocols?

(a) They build a full map of the network

(b) They converge faster than link-state protocols

(c) They rely on periodic updates and hop counts

(d) They use the Dijkstra algorithm

Answer: They rely on periodic updates and hop counts (0.5Pt)

Q12. What is the Hidden Terminal Problem?

(a) When two devices can hear each other but cannot hear the AP

(b) When two devices cannot detect each other but both transmit to the same AP

(c) When the AP is hidden behind a wall

(d) When the SSID is not broadcast

Answer: When two devices cannot detect each other but both transmit to the same AP (0.5Pt)