Wi-Fi Assessment Test (M1 Students)

Multiple-Choice Questions (MCQ)

Q1. What does Wi-Fi stand for?

    (a) Wireless Fidelity

    (b) Wireless Frequency

    (c) Wide Fidelity

    (d) Wireless Fiber

Answer: A) Wireless Fidelity **(0.25Pt)**

Q2. Which of the following is a commonly used Wi-Fi standard?

    (a) Wi-Fi 5

    (b) Wi-Fi 6

    (c) Wi-Fi 4

    (d) All of the above

Answer: D) All of the abovey **(0.5Pt)**

Q3. Which frequency bands are used by Wi-Fi networks?

    (a) 2.4 GHz and 5 GHz

    (b) 1.8 GHz and 6 GHz

    (c) 2.5 GHz and 5.5 GHz

    (d) 4.5 GHz and 8 GHz

Answer: A) 2.4 GHz and 5 GHzy **(0.5Pt)**

Q4. What does the term "SSID" stand for in the context of Wi-Fi?

    (a) Secure Signal Identification

    (b) Service Set Identifier

    (c) Signal Security Interface Device

    (d) System Set Information Distribution

Answer: B) Service Set Identifiery **(0.25Pt)**

Q5. Which of the following is a common issue that can degrade Wi-Fi performance?

    (a) Signal interference from nearby devices

    (b) Too many connected devices

    (c) Physical obstructions (e.g., walls)

    (d) All of the above

    Answer: D) All of the abovey **(0.5Pt)**

Q6. What is the key advantage of using a 5 GHz Wi-Fi channel over a 2.4 GHz channel?

    (a) It has a greater range

    (b) It has more available channels and less interference

    (c) It provides better security features

    (d) It works better for indoor environments

    Answer: B) It has more available channels and less interferencey **(0.5Pt)**

Q7. Which of the following is NOT a valid Wi-Fi interface mode?

    (a) Managed mode

    (b) Monitor mode

    (c) Master mode

    (d) Duplex mode

    Answer: D) Duplex modey **(0.5Pt)**

Q8. Which of the following is an example of a distance-vector routing protocol?

    (a) OSPF (Open Shortest Path First)

    (b) BGP (Border Gateway Protocol)

    (c) RIP (Routing Information Protocol)

    (d) IS-IS (Intermediate System to Intermediate System)

    Answer: C) RIP (Routing Information Protocol)y **(0.5Pt)**

Q9. Which routing protocol uses the concept of Autonomous Systems (AS)?

    (a) RIP (Routing Information Protocol)

    (b) BGP (Border Gateway Protocol)

    (c) OSPF (Open Shortest Path First)

    (d) EIGRP (Enhanced Interior Gateway Routing Protocol)

    Answer: B) BGP (Border Gateway Protocol)y **(0.5Pt)**

Q10. Which of the following is a primary benefit of using the OSPF protocol in large networks?

(a) It uses a simple, static routing table

(b) It scales well in large networks due to its hierarchical structure

(c) It provides automatic updates to routing tables every 30 seconds

(d) It is used exclusively for IPv6 networks

Answer: B) It scales well in large networks due to its hierarchical structurey **(0.5Pt)**

Q11. What is the role of the Bellman-Ford algorithm in routing protocols?

(a) It helps to calculate the shortest path based on link states

(b) It is used to prevent routing loops in link-state protocols

(c) It calculates the best path based on distance and hop count in distance-vector protocols

(d) It is used for routing table updates in BGP

Answer: C) It calculates the best path based on distance and hop count in distance-vector protocolsy **(0.5Pt)**