

Q7. Explain the concept of Multi-Link Operation and its impact on throughput and latency.

Wi-Fi 7 AP and client can use multiple frequency bands simultaneously (Ex: 5 GHz + 6 GHz).

Benefits:

- Increased throughput
- Reduced latency and jitter
- Better resilience if one band fails, others maintain the link
- Faster and more reliable handovers in real-time applications like gaming and video calls

Q8. What is the purpose of 802.11k and v, and how does it aid in roaming?

- **802.11k (Neighbour Reports):**

AP provides a list of better APs to the client.

Helps client decide which AP to roam to.

- **802.11v (BSS Transition Management):**

AP can suggest the best AP to roam to.

Client receives guidance to switch at the right time.

Combined Effect: It enables smart, proactive roaming instead of random switching.