WiFi Training Program 2025

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Question-9:

What is the difference between MIMO and MU-MIMO?

Differences:

Feature	MIMO (Multiple Input, Multiple Output)	MU-MIMO (Multi-User MIMO)
Full Form	Multiple Input, Multiple Output	Multi-User Multiple Input, Multiple Output
Purpose	Increases speed & reliability for a single user	Increases efficiency by serving multiple users at once
Users	One user at a time	Multiple users at the same time
In Wi-Fi	802.11n (Wi-Fi 4)	802.11ac (Wi-Fi 5) — downlink802.11ax (Wi-Fi 6) — uplink & downlink
Transmission Type	Point-to-point	Point-to-multi-point
Antenna Usage	All antennas focus on one user	Antennas are shared across users simultaneously
Efficiency	Lower (one user at a time)	Higher (better for dense environments)
Downlink Support	Yes	Yes
Uplink Support	No	Yes (introduced in Wi-Fi 6)