

COMPUTER NETWORK ASSIGNMENT-2



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ASSIGNMENT-2

1) Scenario;

A network school implement Wi-Fi 6 to support hundreds live events over on-demand content in their backbone.

i) What features of Wi-Fi 6 (802.11ax) help in dense user environments?

OFDMA, MU-MIMO, and higher modulation scheme like 1024-QAM.

* OFDMA (Orthogonal Frequency Division Multiple Access);

This technology allows the access point to divide a channel into smaller sub-channel called resource units.

* MU-MIMO (Multi-user Multiple Input, Multiple Output);

While MU-MIMO was also present in Wi-Fi 5, Wi-Fi 6 enhances it by allowing multiple

communicate with the access point simulation in both downlink and active only.

ii) How does OFDMA enhance performance in classroom application?

* Reduced Latency :

OFDMA breaks down data into smaller packet and sends them to multiple devices concurrent minimizing delays in data conferencing.

* Increased Throughput ;

By dividing a channel into smaller subcarriers and assign them a difference users, OFDMA allow for more efficient use of the available needs.

* Better Battery Life ;

By allowing devices to transmit data smaller bursts and lower power, OFDMA help devices.