

### **Q9. Brief about the Block ACK mechanism and its advantages**

Instead of ACKing every packet individually, group of packets are acknowledged together. Sender sends multiple frames, receiver replies with a Block ACK bitmap.

#### **Advantages:**

- Reduced overhead
- Improved throughput
- Lower latency

### **Q10. Explain about A-MSDU, A-MPDU and A-MSDU in A-MPDU**

Aggregate MAC Service Data Unit :

- Multiple MSDUs packed into a single MPDU.
- Efficient but if one fails, the whole aggregate is retransmitted.

Aggregate MAC Protocol Data Unit :

- Multiple MPDUs packed at PHY layer.
- Each has its own CRC; better error recovery.

A-MSDU in A-MPDU:

- Nesting: Multiple A-MSDUs wrapped as MPDUs, then combined into A-MPDU.
- Combines efficiency of A-MSDU and robustness of A-MPDU.