**4. What are the basic functionalities of Wi-Fi Access point?**

* Provides wireless connectivity for devices to connect to the network.
* Acts as a bridge between Wi-Fi devices and the wired network.
* Handles data transmission and reception over radio waves.
* Broadcasts the SSID so devices can detect and join the network.
* Supports security features like WPA2 and WPA3 for encryption and authentication.
* Manages multiple device connections and balances network load.
* Allows seamless roaming between APs in a larger network.
* Chooses the best frequency channel to avoid interference.
* Uses QoS to prioritize important network traffic.
* Prevents direct communication between connected devices for security.