1. **In which OSI layer the Wi-Fi standard/protocol fits.**

Wi-Fi fits into both the Physical Layer (Layer 1) and the Data Link Layer (Layer 2) of the OSI model.

Physical Layer: Handles the actual transmission of data over the air using radio waves, including modulation techniques and frequency bands (2.4 GHz, 5 GHz, 6 GHz).

Data Link Layer: Manages MAC addressing, frame delivery, and error detection. The MAC sublayer of this layer is responsible for controlling access to the wireless medium.