

Assignment No. 7

Ques-1 Compare WiMAX and Li-Fi.

Ans - Features	WiMAX	Li-Fi
Full form	World Wide Interoperability for Microwave Access.	Light - fidelity.
Operation	Broadband Wireless Access.	It transmits data using light with the help of LED bulbs.
Technology	Wireless metropolitan Area network.	Present IRDA compliant Device.
Merits	Can be used for long ranges upto 30 kms.	Interference is less, can pass through salty sea water.
Data Transfer Speed	Works at high dense environ. 50 Mbps / Hz and can peak upto 100 Mbps in a 20 MHz.	About 1 Gbps.
Data Density	Works in high dense environment.	Works in high dense environment.
Coverage Distance	Upto 40 miles.	About 10 m.

Power Consumption	High	Medium
Cost Price	Medium	Low
Working Concept	Request / grant	Direct binary data serving.

Ques-2 What is bluetooth profile?
Ans-

- A bluetooth profile is a wireless interface specification for Bluetooth-based communication between devices, such as the hands-free profile. For a mobile device to connect to a wireless headset, both devices must support the Hands-Free Profile.
- Specific parts of the Bluetooth protocol stack used by the protocol. To perform its task, each profile uses particular options and parameters at each layer of the stack.