...cntc PERSONAL AREA NETWORK – PAN: **Examples:**

Blue tooth wireless PAN:

of about 2100 Kbit/ sec.

- ✓ These are referred as Pico nets. Pico nets are Ad hoc networks.
 - ✓ Pico nets work over a range of 200metres and transmit data
 - ✓ The Bluetooth technology is based on IEEE 802.15 standard.
 - ✓ The wearable and portable computer devices communicate with each other.
 - ✓ In this process of hand shake, an electric field is generated around people, and they emit Pico amps. ✓ These emissions complete the circuit and
 - exchange of information takes place.

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PERSONAL AREA NETWORK – PAN:

Examples: 2. ZigBee: ✓ It is a short-range, low-power computer networking protocol that

complies with the IEEE 802.15.4 standard. ✓ In the U.S., ZigBee devices operate in the 902-928 MHz and 2.4 GHz unlicensed bands.

✓ ZigBee employs DS-SS modulation with a gross data rate of 40 kb/s in the 900 MHz band and 250 kb/s in the 2.4 GHz band. ✓ There are three types of ZigBee devices:

and bridging to other networks, * ZigBee Router (ZR): It can run an application function as well as act as an intermediate router by passing data from other devices.

TigBee Coordinator (ZC): Forming the root of the network tree

TigBee End Device (ZED): It contains just enough functionality to talk to its parent node. It can sleep most of the time, extending ts battery life.

❖ PERSONAL AREA NETWORK – PAN:



Examples:

Ultra-Wide Band(UWB):

✓ It is a radio technology useful for short-range, high-bandwidth

communications that does not create harmful interference to users sharing the same band. ✓ A pulse-based UWB method is the basis of the IEEE 802.15.4a draft

standard 4. Wi-Fi or WiMAX

✓ Wi-Fi or WiFi is a technology for wireless local area networking with devices based on the IEEE 802.11 standards.