

## Experiment - 5

1) What is Bluetooth in computer Network

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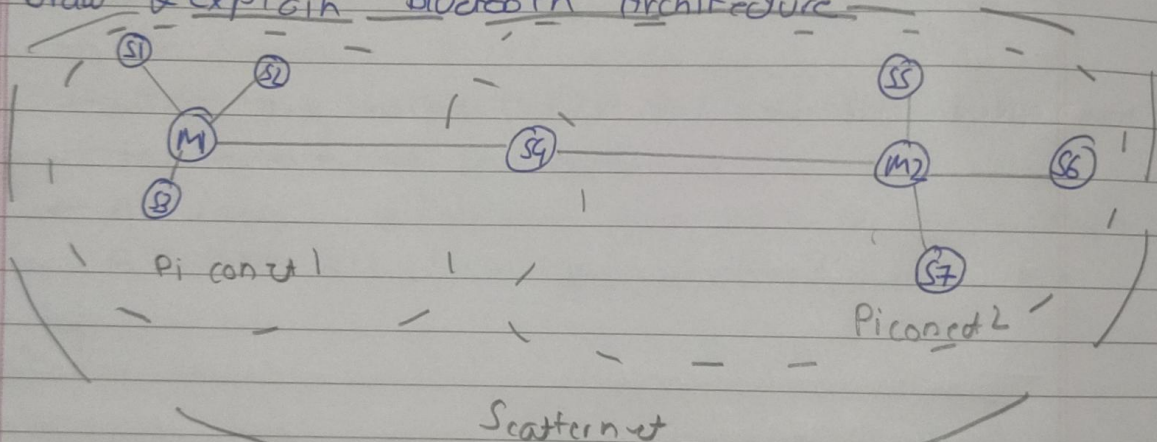
Bluetooth follows the principles of transmitting & receiving data using radio waves. The paired devices should be within an estimated range.

3) Write any 5 features of bluetooth

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- Quick data transfer
- Easy transport
- Less power consumption.
- Available at cheaper rate
- Less complication.
- Universal architecture standards

4) Draw & explain Bluetooth Architecture



**Piconet:-** Piconet is a type of bluetooth network that contains one primary node called the master node & seven active secondary nodes called slave nodes. The communication between primary & secondary can be one to one or one to many. Possible communication only between the master & slave.



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Scatternet:- It's formed by using various piconets. A slave that is present in one piconet can act as master or primary in another piconet. This kind of node can receive a message from master in one piconet & deliver to its slave in another piconet where it's acting as master. This type of node is called bridge node. A station cannot be mastered in two piconets.

5) Write any 5 advantages of Bluetooth

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- It is low-cost
- It is easy to use device.
- It can penetrate through walls.
- It creates an Ad-hoc connection immediately without any wires.
- It's used for voice & data transfer.

6) Write any 5 disadvantages of Bluetooth

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- It can be easily hacked & hence less secure
- It has slow data transfer rate of 3 Mbps
- It has small range: 10 meters
- Bluetooth communication doesn't support routing.
- The issues of handoffs haven't been addressed



7) Compare on any 5 points between WIFI & Bluetooth

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### Bluetooth

- It requires bluetooth adapter on all devices for connectivity
- It consumes low power
- The security of bluetooth is less
- limited users are supported
- Range is 10 meters
- low-bandwidth
- Bit rate is 2.1 Mbps

### WIFI

- It requires wireless adapters on all devices & wireless router for connectivity
- It consumes high power
- The security of wifi is better
- Supports large amount of users
- The range is 100's of meters
- High bandwidth
- Bitrate is 600 Mbps

8) How to disable bluetooth in android

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Open settings, locate ~~to~~ bluetooth & then swipe to turn bluetooth off.

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