Bluetooth

1. An interconnected collection of piconet is called _____
a) scatternet
b) micronet
c) mininet
d) multinet
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Answer: a
Explanation: Piconet is the basic unit of a bluetooth system having a master node and upto seven active slave nodes. A collection of piconets is called scatternet and a slave node of a piconet may act as a master in a piconet that is part of the scatternet.

2. In a piconet, there can be up to _____ parked nodes in the network.
a) 63
b) 127
c) 255
d) 511
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Answer: c
Explanation: A slave node in a piconet can be instructed by the master node to go into parked mode. Then the slave node enters the parked mode in which the node is not disconnected from the network but is inactive unless the master wakes it up.

3. Bluetooth is the wireless technology for _____
a) local area network
b) personal area network
c) metropolitan area network
d) wide area network
View Answer

Answer: b
Explanation: Bluetooth is a wireless technology used to create a wireless personal area network for data transfer up to a distance of 10 meters. It operates on 2.45 GHz frequency band for transmission.

4. Bluetooth uses _____
a) frequency hopping spread spectrum
b) orthogonal frequency division multiplexing
c) time division multiplexing
d) channel division multiplexing
View Answer

Answer: a
Explanation: Frequency hopping spread spectrum is a method of transmitting radio signals by rapidly changing the carrier frequency and is controlled by the codes known to the sender and receiver only.

5. Unauthorised access of information from a wireless device through a bluetooth connection is called _____
a) bluemaking
b) bluesnarfing
c) bluestring
d) bluescoping
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Answer: b
Explanation: Unauthorised access of information from a wireless device through a bluetooth connection is called Bluesnarfing. It is done through exploiting the vulnerabilities of the Bluetooth device to steal the transmitted information.

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6. What is A2DP (advanced audio distribution profile)?
a) a bluetooth profile for streaming audio
b) a bluetooth profile for streaming video
c) a bluetooth profile for security
d) a bluetooth profile for file management
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Answer: a
Explanation: A2DP stands for Advanced Audio Distribution Profile is a transfer standard use to transmit high definition audio through Bluetooth. It is mainly used in Bluetooth speakers and wireless headphones.

7. In a piconet, one master device _____
a) can not be slave
b) can be slave in another piconet
c) can be slave in the same piconet
d) can be master in another piconet
View Answer

Answer: b
Explanation: In a scatternet, a slave node of one piconet may act as a master in a piconet that is part of the scatternet. The scatternet uses this property to connect many piconets together to create a larger network.

8. Bluetooth transceiver devices operate in _____ band.
a) 2.4 GHz ISM
b) 2.5 GHz ISM
c) 2.6 GHz ISM
d) 2.7 GHz ISM
View Answer

Answer: a
Explanation: Bluetooth operates on 2.45 GHz frequency ISM band for transmission. It is used to create a wireless personal area network for data transfer up to a distance of 10 meters.

9. Bluetooth supports _____
a) point-to-point connections
b) point-to-multipoint connection
c) both point-to-point connections and point-to-multipoint connection
d) multipoint to point connection
View Answer

Answer: c
Explanation: In Bluetooth, each slave node communicates with the master of the piconet independently i.e. each master-slave connection is independent. The slave is not allowed to communicate with other slaves directly.

10. A scatternet can have maximum _____
a) 10 piconets
b) 20 piconets
c) 30 piconets
d) 40 piconets
View Answer

Answer: a
Explanation: A scatternet can have maximum of 10 piconets and minimum of 2 piconets. To connect these piconets, a slave node of one piconet may act as a master in a piconet that is part of

the scatternet.