1. Modify the following texts so that the statements will be true.

Standard Bluetooth is proprietary standard for communication. Communication at Bluetooth standard is realized on the distances between various types of electronic devices (e.g. mobile (smart) phones, wireless headphones,…).

1. Which layers are included in the layer model for data transmission on Bluetooth technology?

1. physical layer

2. logical layer

3. L2CAP layer

1. Select and mark in the following table the basic key features of Bluetooth technology (one on each column):

|  |  |  |
| --- | --- | --- |
| MODULATION | FREQUENCY BAND | MULTIPLEX |

|  |  |  |
| --- | --- | --- |
| **GFSK** | ~~5 GHz~~ | ~~TDD~~ |
| ~~QAM~~ | ~~900 MHz~~ | ~~CDM~~ |
| ~~GMSK~~ | **2,4 GHz** | ~~FDM~~ |
| ~~VDMT~~ | ~~1800 MHz~~ | **TDM** |

1. Modify the following texts so that the statements will be true.

Communication security is in terms of the confidentiality of the content of the transmitted information carried by the layer. The entities (keys) are used to ensure of secured communication.

1. Realize an overview of the keys that are used for communication security by Bluetooth technology.

1. Public Key PK

2. Secret (Private) Key SK

3. Diffie Hellman key DH

4. Link Keys LK

1. Identify and draw possible network topologies used within the Bluetooth technology:



1. Modify the following texts so that the statements will be true.

Set of two or more devices, that share the same channel, is called as . device always in piconetwork from the view of communication control superior to each other’s. Synchronization and frequency sequences are always derived from the station.

1. Indicate the processes used for handle of the bit flows on the physical layer of Bluetooth technology.

|  |  |
| --- | --- |
| **Processing of header bits** | **Processing of user data bits** |
| header security | CRC protection |
| scrambling | encryption |
| FEC coding | scrambling |
|  | FEC coding |