1. Assign the terms from the left column to the corresponding definitions on the right.

|  |  |  |
| --- | --- | --- |
| Cat-M1 |  | Machine to Machine, refers to devices that are connected to each other |
|  |  |  |
| 5G |  | IoT-friendly versions of LTE |
|  |  |  |
| Adafruit IO |  | System that makes data useful. It is ease of use, and allows simple data connections with little programming required. |
|  |  |  |
| M2M |  | Abbreviation used to refer to the fifth generation of mobile telephony technologies |

1. List three basic parameters that characterize IPv6 (Internet protocol version 6)

1. IPv6 uses a 128-bit address format

2. More efficient routing

3. Easier administration

1. Correct the text so that the following statement is true

IPv6 addresses are represented as groups of hexadecimal digits.

IoT devices in installations commonly use Wi-Fi and Bluetooth.

Wi-Fi power consumption is much than Bluetooth.

The 5G technology will work in the bands of in 2020 at the European Community.

IoT enabled devices will operate at low powers with battery life of up to years in some applications.

1. Assign the terms from the left column to the corresponding definitions on the right.

|  |  |  |
| --- | --- | --- |
| Energy-efficiency |  | A type of communication over power lines |
|  |  |  |
| Narrowband PLC |  | Use of wearables, fall detection devices or life quality for people |
|  |  |  |
| Smart home |  | can learn about owner habits and suggest a tv film, a meal or a drink… |
|  |  |  |
| Smart health |  | Remote device feature |

1. List a minimum of 4 basic applications and its description in the field of smart cities.

1. **Structural health**: Monitoring of vibrations and material conditions in buildings, bridges and historical monuments

2. **Traffic congestion**: Monitoring of vehicles and pedestrians levels to optimize driving and walking routes

3. **Smart lighting**: Intelligent and weather adaptive lighting in streets lights

4. **Potable water monitoring**: Monitoring of the quality of tap water in cities

1. Correct the text so that the following statements are true.

Commercial IoT devices use to communicate with others.

A smart grid the electricity network to have a smart energy management.

Smart farming provides the farmer with opportunities for and .