

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

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

1. _____
2. _____
3. _____

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

IPv6 addresses are represented as $\left(\begin{smallmatrix} \text{four} \\ \text{eight} \end{smallmatrix}\right)$ groups of $\left(\begin{smallmatrix} \text{four} \\ \text{two} \end{smallmatrix}\right)$ hexadecimal digits.

IoT devices in $\left(\begin{smallmatrix} \text{indoor} \\ \text{outdoor} \end{smallmatrix}\right)$ installations commonly use Wi-Fi and Bluetooth.

Wi-Fi power consumption is much $\left(\begin{smallmatrix} \text{higher} \\ \text{lower} \end{smallmatrix}\right)$ than Bluetooth.

The 5G technology will work in the bands of $\left(\begin{smallmatrix} 1.6 \text{ and } 35 \text{ GHz} \\ 3.6 \text{ and } 26 \text{ GHz} \end{smallmatrix}\right)$ in 2020 at the European Community.



IoT enabled devices will operate at low powers with battery life of up to $\left(\frac{\text{four}}{\text{ten}}\right)$ years in some applications.

4. 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

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

1. _____
 2. _____
 3. _____
 4. _____
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6. Correct the text so that the following statements are true.

Commercial IoT devices use (either ZigBee or Bluetooth) to communicate with others.
an IP network

A smart grid (combines sources of fossil energy with laptops and smartphones in) the
integrates the information and communication technologies to) electricity network to have a smart energy management.

Smart farming provides the farmer with opportunities for (combines sources of fossil) and
better decision-making) (more efficient management) better decision-making).