1. Which of the following statements regarding Smart home system are valid:

□ can be created from scratch at home

□ are available as a bundled smart home kit

□ have lot of open source software implementation

□ can be completely purchased

1. Which technologies belong to IoT technologies for home automation?

□ LoRaWan

□ DLMS

□ SigFox

□ PLC

1. Select smart TV technologies below the table and assign them to corresponding types of services/interfaces in the table!

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Live broadcasting** | **Wireless interfaces** | **Cable (LAN)**  **network** | **Input video** | **Data** | **CI/CI+ module** |

**Ethernet DVB-C Firewire Bluetooth DVB-T Smart card Wimax**

**HDMI GPS DVB-S Wi-Fi LTE USB S-video**

1. Add words below to correct places in the sentence!

TV sets that are DLNA (Digital Living Network Alliance) \_\_\_\_\_\_\_\_\_\_\_\_\_ are able to play \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from other DLNA \_\_\_\_\_\_\_\_\_\_\_\_ (PCs, tablets, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, media servers, etc.).

**devices smartphones certified multimedia content**

1. Fill in the sentence!

Smart appliances are appliances which are equipped by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and which can be remotely controlled.

1. Assign the terms from the left column (sensors) to the corresponding ones on the right (measured parameter)!

|  |  |  |
| --- | --- | --- |
| Accelerometer |  | Picture |
| Gyroscope |  | Object distance from a smartphone |
| Magnetometer |  | Finger touch |
| Barometer |  | Position on Earth |
| Distance sensor |  | Sound |
| Light sensor |  | Light conditions |
| Touch screen |  | Atmospheric pressure |
| GPS |  | Orientation and angular velocity |
| Front and rear camera |  | Magnetic field |
| Microphone |  | Acceleration |

1. What are the important features of Intelligent transport systems?

a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

f. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

g) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Add words below to the smart watches diagram at correct gaps (red lines)!

Application

\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

with touchscreen

Battery and

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Wireless radio

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\_\_\_\_\_\_\_\_\_\_\_ to sensors**

(motion, magnetic,

\_\_\_\_\_\_\_\_\_\_\_\_, humidity,

gyroscope, etc.)

Highly integrated

application-specific IC

**Battery power management Sensors processor transmitter/receiver**

**Display subsystem Interfaces temperature**

1. What are the essential areas for Smart city solutions?

a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Add words below to correct places in the sentence!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ informs the frequency of data acquisition. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ describes the different types of data that may be handled. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ represents the amount of data.

**Variety Velocity Volume**