

**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

**2. Which technologies belong to IoT technologies for home automation?**

- ☒ LoRaWan
- ☐ DLMS
- ☒ SigFox
- ☐ PLC

**3. 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
DVB-T DVB-S DVB-C	Wi-Fi Bluetooth	Ethernet	HDMI S-video	USB	Smart card

Ethernet   DVB-C   Firewire   Bluetooth   DVB-T   Smart card   Wimax  
HDMI   GPS   DVB-S   Wi-Fi   LTE   USB   S-video

**4. Add words below to correct places in the sentence!**

TV sets that are DLNA (Digital Living Network Alliance) certified are able to play multimedia content from other DLNA devices (PCs, tablets, smartphones, media servers, etc.).

devices   smartphones   certified   multimedia content

**5. Fill in the sentence!**



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Smart appliances are appliances which are equipped by wireless interface and which can be remotely controlled.

6. 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

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

- a) Public Transportation Management
- b) Route Information and trip planning
- c) Safety and Vehicle Control
- d) Electronic Timetable
- e) Electronic Payment System
- f) Smart Parking
- g) Mobility as a service

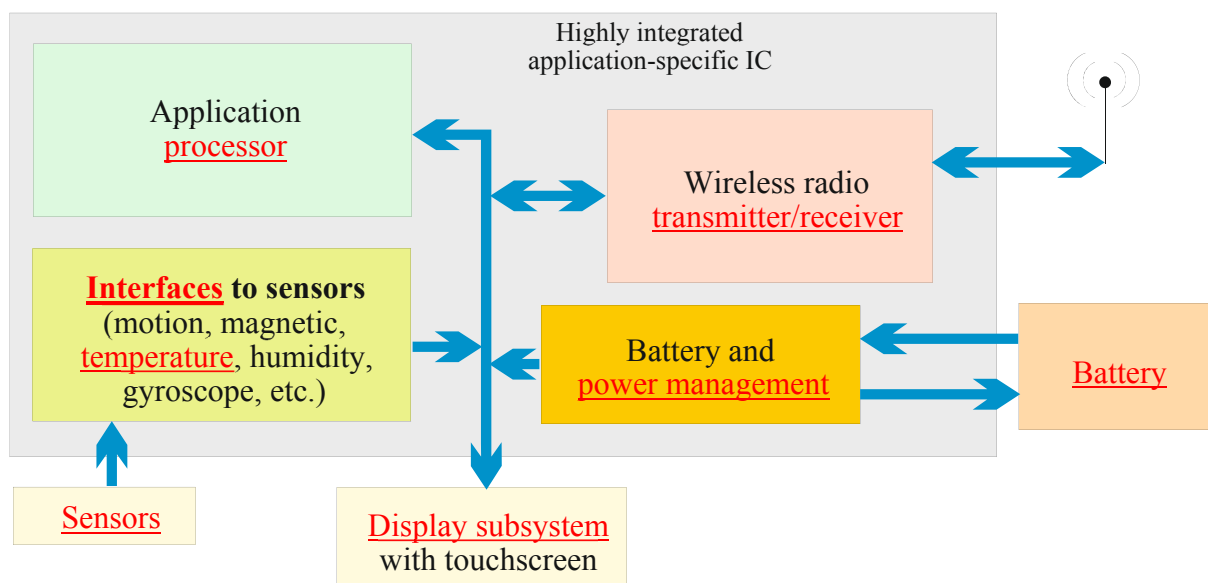
8. Add words below to the smart watches diagram at correct gaps!



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Battery      power management      Sensors      processor      transmitter/receiver

Display subsystem      Interfaces      temperature

## 9. What are the essential areas for Smart city solutions?

- \_\_\_ Intelligent transport systems \_\_\_
- \_\_\_ Intelligent video surveillance \_\_\_
- \_\_\_ Smart metering and smart energy systems \_\_\_
- \_\_\_ Smart waste management \_\_\_
- \_\_\_ Intelligent lighting \_\_\_

## 10. Add words below to correct places in the sentence!

Velocity informs the frequency of data acquisition. Variety describes the different types of data that may be handled. Volume represents the amount of data.

Variety      Velocity      Volume