1. Building management is primarily focused on:

**x** ensuring the safety of people and property

□ increasing environmental responsibility of employees

**x** internal transport of passengers and goods

□ optimizing the number of people in buildings

**x** reducing energy costs

**x** optimization of working conditions

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

|  |  |  |
| --- | --- | --- |
| Fire Protection Systems |  | 1. Card or chip readers are placed on each side of the door  2. Electric lock  3. Door contact  4. Emergency escape buttons are located on each side of the door |
|  |  |  |
| Transport Systems |  | Exterior building lighting, Lighting for common areas of the building, Room lighting |
|  |  |  |
| Access system contains |  | Fire Alarm Systems (FAS) also called Automatic Fire Detection System, Fire Suppression System (FSS), Smoke Exhaust Ductwork (SED) |
|  |  |  |
| Lighting systems can be divided as follows: |  | • escalators  • travelators  • elevators |

1. Complete the sentence!

is described in the theory of automation by functions of Boolean algebra and theory of state machines.

1. Choose the correct option: *Building safety technology includes*

□ transport systems

**x** access to the building (persons and vehicles)

□ lighting systems

**x** closed circuit television

**x** fire protection systems

1. Fill the correct elements in the corresponding blocks!

**Thermocouple**

**iron (Fe) - constantan**

**Resistance thermometer**

**Ni of Pt**

Ni or Pt Cu iron (Fe) - constantan He

1. Complete the sentences!

Thermoelectric effect relies on **thermoelectric voltage which is transformed into heat in the junction of the two metals**.

The resistance thermometer is based on the fact that **any material changes its electrical resistance depending on the temperature**.

1. Explain the parts of SCADA systems

SCADA means: **Systems which enables supervision, control and archiving of events in a technological processes**.

HMI means: **Human Machine Interface - imaging software that performs visualization of technological processes**.

1. Choose the correct option!

\_\_\_\_\_\_\_\_**a**\_\_\_\_\_\_ – Thermal output control can be realized through

1. **Control of the heat source**
2. Controlling the access to a building
3. Lights regulation

\_\_\_\_\_\_\_\_**b**\_\_\_\_\_\_ – Which factor influences the heat control?

1. Distance between the control system and heat source
2. **Type of heat transfer medium**
3. Control buses used in the building
4. Complete the sentence!

KNX bus - it is a successor of with more features.