1. Mark the correct statements: *European Installation Bus (EIB)*

□ has a centralized structure with linear, circular or branched topology

**x** has a decentralized structure with linear, circular or branched topology

□ is a service provided over RS-485 bus

□ is a service which provides an interface between SCADA and BMS systems

□ is a service provided over RS-232C bus

1. Complete the sentence!

is a serial communication standard defined in 1983 by EIA association. It is mainly used in industrial environment.

1. Assign the abbreviations to the corresponding definitions!

|  |  |  |
| --- | --- | --- |
| SCADA |  | Protocol Data Unit. |
|  |  |  |
| HMI |  | Supervisory Control And Data Acquisition |
|  |  |  |
| PDU |  | European Installation Bus |
|  |  |  |
| EIB |  | Human-Machine Interface |

1. Choose the correct technology!

achieves significantly higher speed and sensitivity compared with macroscopic approaches.

1. Mark the correct statements! SCADA contains:

**x** scripting language

**x** communication with HW

□ SAP connector

**x** connections to various networks

□ C# internal scripting language

**x** remote terminals

1. Choose the correct name!

is a controller for efficient regulation used e.g. for AC or ventilation control in buildings.

1. Complete the sentence!

evaluates whether an object is found in the path of a light beam or not.

1. Assign the types of actuators to the corresponding use cases

|  |  |  |
| --- | --- | --- |
| Two-position actuators |  | control valve for gas supply to the burner gas furnace or reducing valve |
|  |  |  |
| Actuators with continuous output |  | electric door lock, contactor which by the temperature decrease in a heater makes connects the heater to electrical voltage |

1. Fill in correct option to the sentence!

is a device or set of devices, which manages and directs commands or controls the behaviour of other devices or systems.