Sensor

1) Accuracy is the agreement of measured values within a given reference standard.

Repeatibility is the capability of reproducing similar output measured values over consecutive measurements of the same constant input quantity.

Robot Unit

1) Mechanical Unit = Rigid links connected through a rotational or a prismatic link

Example = Car's door

Sensor Unit =

    a) Proprioceptive : Sense the internal state of the machine.
        i.e thermal sensor

    b) Exteroceptive : Sense the external world.
        i.e ultrasonic sensor

Actuation unit = A mechanism to introduce motion
    i.e Car engine

Supervision unit = Task planning and control or Artificial Intelligence
    i.e micro controller

2) Mechanical Unit = Rigid links connected through a rotational or a prismatic link

Example = Gripper

Sensor Unit =

a) Proprioceptive : Sense the internal state of the machine.
i.e IMU

b) Exteroceptive : Sense the external world.
i.e pressure sensor

Actuation unit = A mechanism to introduce motion
i.e Motor

Supervision unit = Task planning and control or Artificial Intelligence
i.e micro controller

True or False

1. F
2. T
3. F
4. T
5. F
6. F
7. T
8. F
9. F
10. F
11. T
12. F

13. F
14. F
15. F
16. F
17. T
18. F