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Module 2 quiz

Question 1

3.0/3.0 points (graded)

What does the 'things' in Internet of Things refer to?

- ☐ Smart phones and tablets
- ☐ Machines and vehicles that operate themselves
- ☒ A physical object with embedded electronics ✓

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You have used 1 of 1 attempt

Question 2

0.0/3.0 points (graded)

Sensors play a big part in the Internet of Things, collecting data from the physical world. There is a long and growing list of sensor types, but some of the more common ones are found in smart phones. Which sensor in your phone collects information on your **physical activity** for health apps?

- ☒ Gyroscope ✗
- ☐ Magnetometer
- ☐ Proximity sensor

☐ Accelerometer ✓

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i Answers are displayed within the problem

Question 3

0.0/3.0 points (graded)

In an industrial fan maintenance system, what physical change does Ian Howard say a sensor might detect, measure and transmit data on?

☐ Vibration ✓

☒ Blade speed ✗

☐ Power

☐ Wind direction

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Question 4

0.0/3.0 points (graded)

When the gate system at the dairy closes one gate and opens another to direct a cow into a particular area, what is (or what are) the actuators in play?

☒ RF antennae detecting ID of cow ✖

☐ Light sensors detecting cow in gate

☐ Pneumatic arms on gate mechanism ✔

☐ Movement sensor in cow's pendant

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Question 5

3.0/3.0 points (graded)

The IoT increases the potential for machines to make smart decisions based on collected data, and to act on them, leaving people (apart from the original programmers and those setting the parameters) out of the loop. This is called M2M. Select an example of M2M from the descriptions below.

☐ A sensor on a milking cow indicates that she is moving in a way that suggests she is in heat and will be receptive to insemination. She is placed on a watch list and the herd manager chooses to draught her out, after milking, for insemination.

☒ An autonomous ambulance on an emergency call approaches an intersection and communicates with the signals to change the lights from red to green, to allow smooth passage through the intersection. ✔

☐ Sensors on a bridge detect strain in bridge joints. Areas of concern are flagged with the maintenance team who can respond to specific problems, rather than carrying out lengthy inspections.

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