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Quiz 3

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Multiple Choice

1.0/1.0 point (graded)

How does an oximeter sense heart pulse along with oxygen level?

- ☐ By counting pulse / heart rate of the light passed through red cells
- ☐ By using ECG signal through blood cell
- ☒ By measuring light intensity that passed through red cells using a separate calculation.
- ☐ By using sonar



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Multiple Choice

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What type of lens is used in a PIR sensor?

- ☐ Trifocal lens
- ☒ Fresnel Lens
- ☐ Progressive lens
- ☐ Biconcave lens



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Multiple Choice

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Which of the following is a piezoelectric material?

- ☐ Americium 241
- ☐ Nickel
- ☐ Iron-Constantan

- ☒ Quartz



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Multiple Choice

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Assume a scenario, where some coal miners want to work deep under the ground base where they don't know how deep they have to work under.

For this situation which sensor(s) can be used?

☒ time and distance measurement of Sonar Sensor

☐ Resistivity of LDR sensor

☐ Electromagnetic Radiation of IR sensor

☐ Mechanism of Proximity sensors



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LDR used to sense:

☒ Electromagnetic radiation

☐ Infrared

☐ X-Ray

☐ None of above



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Multiple Choice

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Which of the following sensors is used in autonomous vehicles for localization and mapping?

☒ LiDAR

☐ LDR

☐ Accelerometer

☐ Rotary Encoder



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Multiple Choice

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Which of the following is the function of the accelerometer sensor?

☐ Detects changes in velocity, shock

☐ Detects changes in position, orientation

☐ Detects changes in position, orientation

☐ Detects changes in tilt, vibration

☒ All the above



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Multiple Choice

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Which statement(s) is/are true for active and passive sensors?

☐ Passive sensors always need to emit something to sense.

☐ Active sensor is called active because it is installed with a motor.

☐ Active sensors emit signals only.

☒ The same passive sensor can be used as an active sensor when it uses an emitter to sense properly.

☐ None of the above is true.



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Multiple Choice

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Which rays are used to measure the oxygen saturation in blood?

☐ UV

☒ IR

☐ Photo emission

☐ Light



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Multiple Choice

0.0/1.0 point (graded)

The speed of sound in air at normal temperature is 340m/s. If an ultrasonic burst sent from a transmitter returns to the sensor in 0.5 seconds, how far is any object from the sensor?

☐ 50 meter

☐ 70 meter

☐ 85 meter

☒ 170 meter



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Multiple Choice

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Which of the following is not a temperature sensor?

☐ RTD sensor

☐ Thermistor

☐ Thermocouple

☒ PIR sensor



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Multiple Choice

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Which sensor can be used to measure the angular orientation of an object?

☒ Accelerometer

☐ Gyroscope

☐ Capacitive sensor

☐ Ultrasonic sensor



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Multiple Choice

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On which parameter Sensor effectiveness depends?

☐ Resistivity

☐ Radiation

☒ Sensitivity

☐ Accuracy



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Multiple Choice

1.0/1.0 point (graded)

Why do we use potentiometers with sensory devices?

☒ To increase or decrease the sensitivity in some cases

☐ To increase or decrease voltage or capacitance differences.

☐ To increase or decrease current or inductance differences.



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Multiple Choice

1.0/1.0 point (graded)

Which statement is true for an inductive proximity sensor?

☒ has electromagnetic field

☐ decreased current flow means close proximity

☐ can detect a wooden chair near to the sensor



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