United International University (UIU)

Dept. of Computer Science & Engineering (CSE)

CSE 4326: Microprocessors and Microcontrollers Laboratory (D)

Final Examination Time: 30 minutes

Marks: 20

1. LDR sensors can sense the change of intensity of light. Suppose you have an LOR sensor and an LED, Interface an LDR sensor with Arduino in Proteus and tum on the LED when the intensity of light is low and turn it off when the intensity is high

2. Imagine you are doing a project on obstacle avoidance. You want to measure the distance of an object from your device. Interface a SONAR sensor with Arduino and measure distance using it. Show the distance in meter.

3. A gas sensing-based system should be implemented such that if gas is detected, an alarm/buzzer is triggered instantly to notify the incident.

4. A gas sensing-based system should be implemented such that if gas is detected, a motorized exhaust fan is triggered to keep out the fumes.