Homework 6: Systems approach

# 1. Which one of the following components is used to detect light levels? [1]

⬨ LED

⬨ Thermistor

⬨ LDR

⬨ Resistor

# 2. Which one of the following is an output component? [1]

⬨ Speaker

⬨ PTM switch

⬨ Pressure pad

⬨ Microphone

# 3. Explain the functional difference between a closed loop system and an open loop system. [2]

# 4. This question is about connecting components together in a circuit.

# (a) What is the name for the style of circuit drawn below? [1]

# (b) Which electronic component is labelled SW1? [1]

# (c) Which electronic component is labelled D1? [1]

# (d) Explain the function of resistor R1. [2]

# (e) Split the timing circuit below into three blocks by drawing two vertical lines across it.

#  Label each of the blocks, stating whether it is the input, output or process. [3]

|  |
| --- |
|  |
|  |

#  Total 12 marks