**CG1112 Engineering Principles and Practices II**

**Week 5 Studio 2 Interrupts – Answer Book**

Student ID:

Name:

**Question 1.** (3 marks)

My code and explanation are below (No explanation = 0 marks. Bad explanation = 2 marks deducted):

**Question 2a** (3 marks)

My explanation for attachInterrupt is as follows:

Other possible modes (and explanation):

**Question 2b** (4 marks)

Despite not actually reading pin 2, my code can switch the LED on and off because (hint: Interrupts):

**Question 2c** (3 marks)

“static volatile int onOff” means (Describe each keyword as follows):

The “static” keyword means:

The “volatile” keyword means:

The “int” keyword means:

**Question 3a** (4 marks)

My code and explanation is as follows (no explanation = no marks. Bad explanation = 2 marks deducted):

**Question 3b** (3 marks)

The **polling / interrupt (delete one)** version works better.

This is because:

**Question 4** (5 marks)

My code (and explanation) is as follows. (0 marks for no explanation, -3 marks deducted for bad explanations)

**FOR GRADER’S USE:**

Total Marks: \_\_\_\_\_\_\_\_\_\_ / 25