**A0Department of Electrical Engineering**

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| **Faculty Member:** | **Dated:** |
|  |  |
| **Course/Section:** | **Semester:** |
|  |  |

**Computer Organization and Assembly Language (CS235)**

**Lab #**

**Trainer Familiarization (part 1)**

**Grp no.**

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| **Name** | **Reg. no.** | **Report Marks / 10** | **Viva Marks / 5** | **Total/15** |
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Objective

Upon completion of this lab, you will be able to locate and describe the various components on your circuit board, and demonstrate basic trainer functions.

**Answer the following questions.**

# Q1. What steps must you perform to start up the 32 bit microprocessor circuit board?

* Set the control switches to their correct initial conditions
* Make sure the CPU is in the urn mode
* Set some of shuts to their correct initial conditions.

# Q2. What type of waveform is indicated by the logic probe LEDs?

Repeating Low Pulse. Reason: the low led is dinner than the high led, indicating a repeating low pulse

# Q3. In which circuit block can you monitor the signal INTRA?

IR CONTROLLER.

# Q4. When the CPU starts up in the run mode, can you read the address and data LEDs and explain the reason to your answer.

In run mode the address and data leds constantly change so all of them appear dim and can’t be read.

# Q5. Which circuit block synchronizes control signals between the CPU and support circuitry?

BUS CONTROL. The bus control synchronized signals to a master clock derived from an 8MHz oscillator.