

1. Pair the term with the definition

1. CPU word size
2. ALU
3. Input/Output port
4. Timer/Counter
 - a. It simply counts with a register in sync with a pre-defined clock source.
 - b. A multi-purpose digital signal pin on an integrated circuit or electronic circuit board.
 - c. It is a fundamental part of the CPU, that performs arithmetic and bitwise operations on integer binary numbers.
 - d. It is a fixed-sized piece of data handled as a unit by the instruction set or the hardware of the processor.

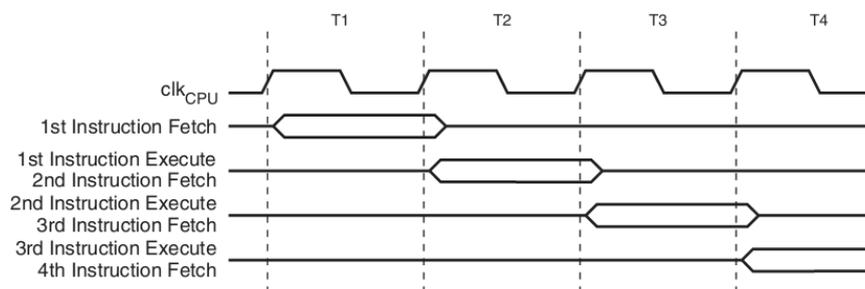
2. Which statement is true?

Processor register is a...

1. quickly accessible location in the ROM.
2. quickly accessible location in the RAM.
3. quickly accessible location available to a MCU.
4. quickly accessible location available to CPU.

3. Please list the three levels of programming instruction!

4. What is in this figure?



1. ALU Operation Timing
2. Instruction Execution Timing
3. RAM access timing

5. Please describe how the timer works in normal mode!

6. How does PWM signal mean?

- a.) It is a square wave with variable duty cycle.
- b.) It is a square wave with variable frequency.
- a.) It is a square wave with variable amplitude.

7. Please list three error types of ADC!