

Problem Set 12

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1

1. Input
2. Memory
3. Datapath
4. Control
5. Output (given)

2

1. Data input
2. Data output
3. Data processing
4. Data storage

3

The correct answer is D) 32 bits. MIPS machines have 32 32-bit registers.

4

The correct answer is C) 2's complement.

5

6

The correct answer is B) Terabyte. 1 Terabyte is 10^{12} bytes. This means $1,099,511,627,776 \text{ bytes} * \frac{1TB}{10^{12} \text{ bytes}} = 1.099 \text{ TB} \sim 1 \text{ TB}$.