

## Quiz 1

I) Identify and give the complete name of the following addressing modes (3)

- a) ldy    #\$40            Immediate Mode
- b) staa   \$2100         Extended Mode
- c) ldaa   2,-SP         Auto Pre-Decrement Indexed Addressing
- d) staa   \$EC, Y        9-bit constant offset Indexed Addressing
- e) ldaa   A,Y            Accumulator offset indexed addressing
- f) staa   [5,Y]         16-bit constant indirect indexed addressing

Identify the following operations and give the mnemonic for that operation (3)

- a)  $A \rightarrow CCR$                                     TAP
- b)  $A:B + (M:M+1) \rightarrow A:B$                         ADDD
- c)  $(M:M+1) \rightarrow Y$                                     LDY
- d)  $D \leftrightarrow Y$                                         XGDY
- e)  $(M:M+1)_1 \rightarrow (M:M+1)_2$                         MOVW
- f)  $B - M - C \rightarrow B$                                     SBCB

II) Match the Following types of memories (2)

- a) MROM              c              (1) Require periodic refresh operation
- b) EEPROM           a              (2) Cannot be programmed by user
- c) DRAM              d              (3) Contents can be erased by strong UV light
- d) EPROM             b              (4) Each individual location can be erased

III) Choose the prefix for the following type of numbers from [% , @ , \$] (1)

- a) Octal              @
- b) Binary             %

IV) This is the big picture of a Computer Organization. Identify the components and name the ones marked with a dot (1)

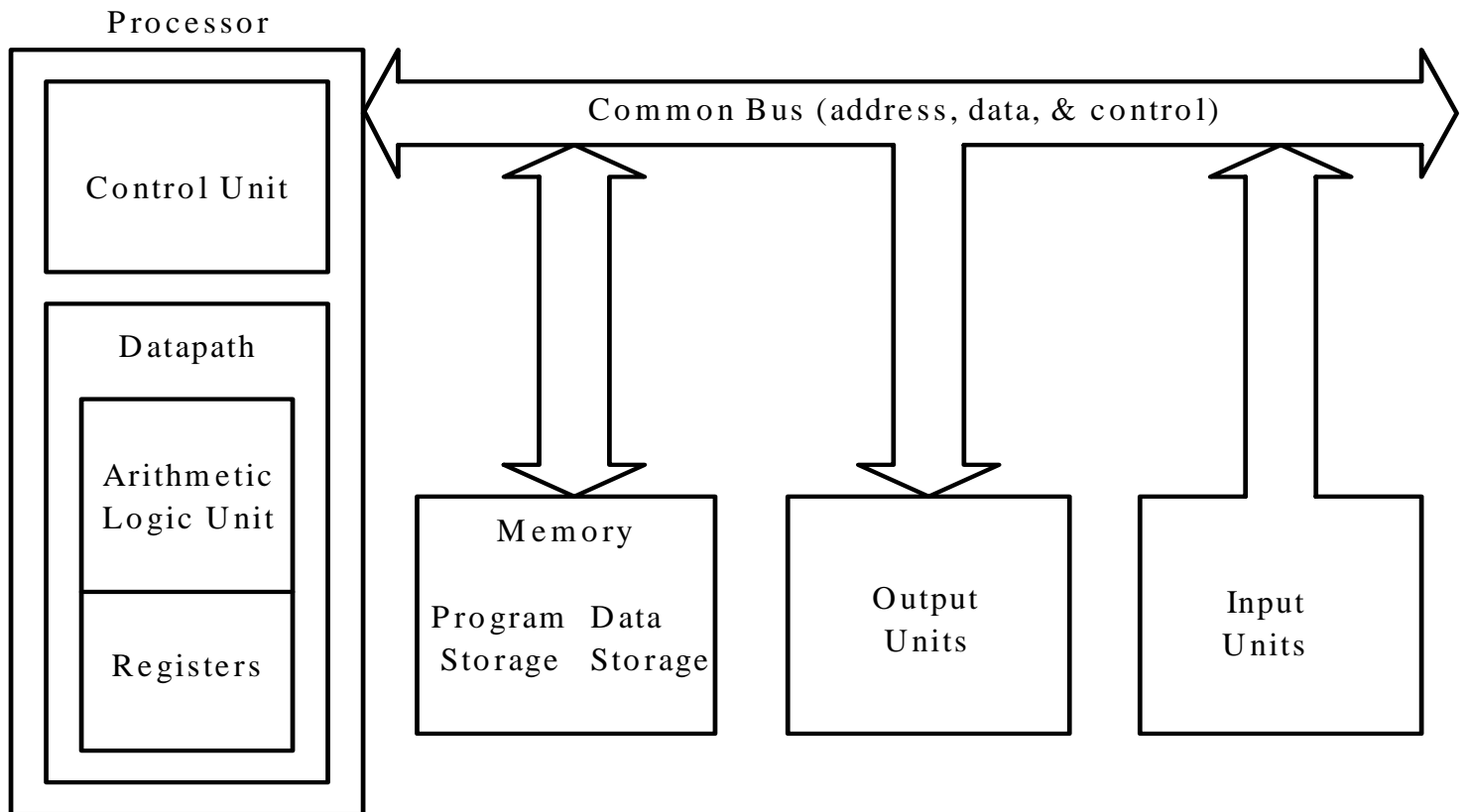


Figure 1.1 Computer Organization