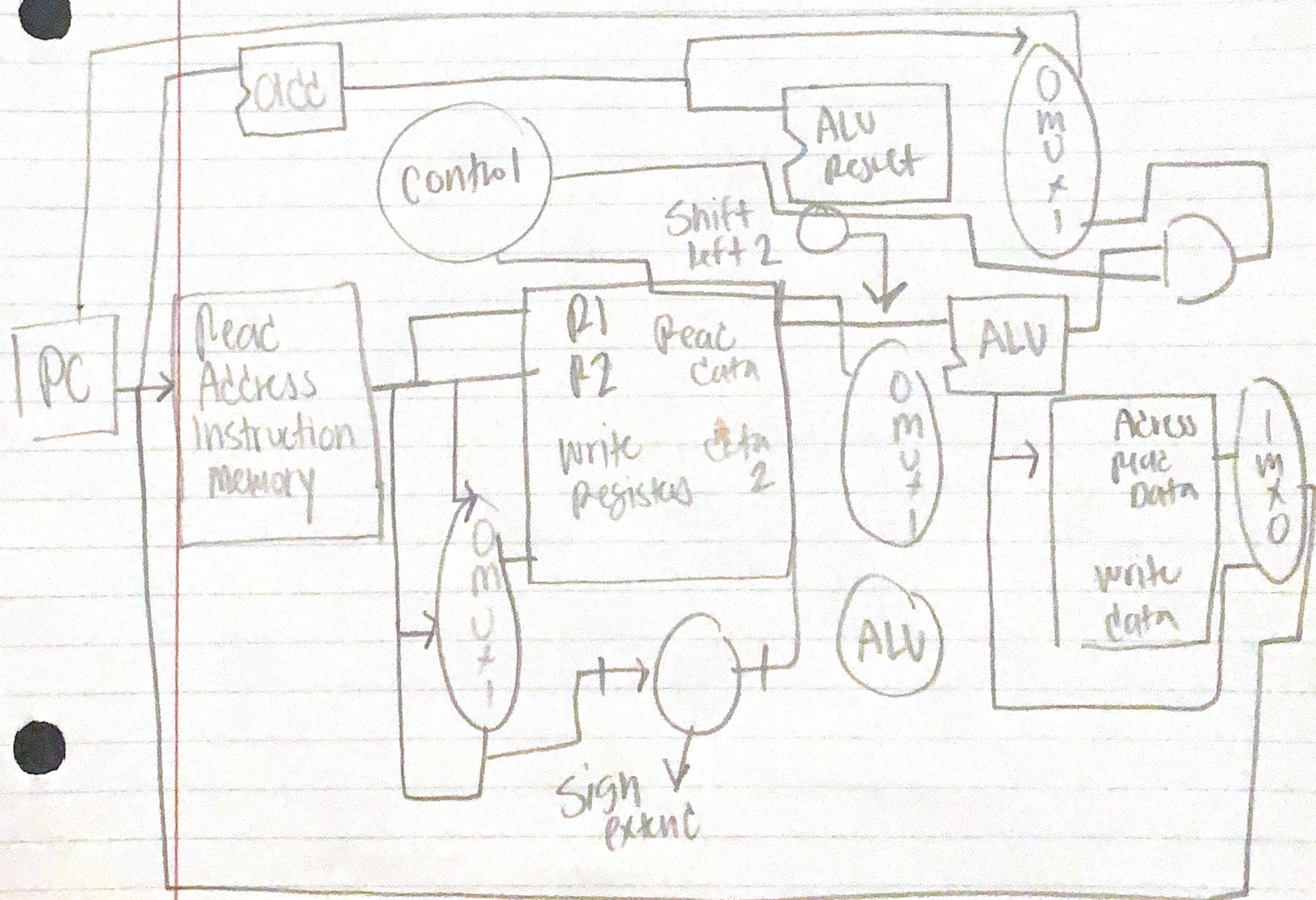
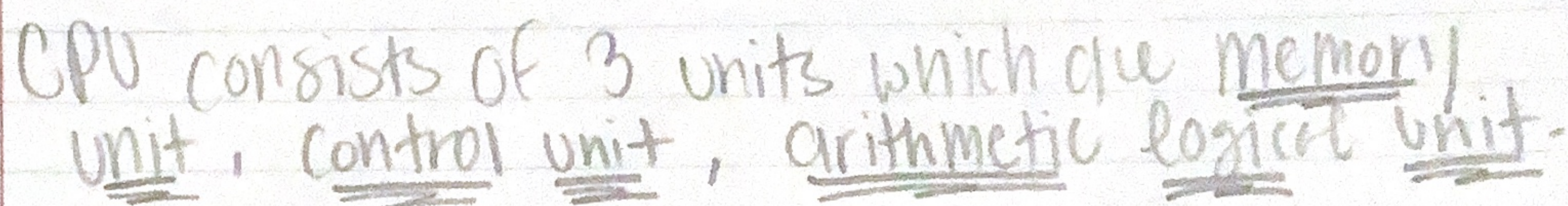


Q.3a)



Problem 1.

$$R4 = 5$$

$$A = B \times (C + D) \quad \text{Values} \rightarrow B = 5$$

$$C = 10$$

$$D = 15$$

$$1. \text{LD } R1, (C) \# R1 = 10$$

$$2. \text{LD } R2, (D) \# R2 = 15$$

$$3. \text{ADD } R3, R1, R2 \# R3 = R1 + R2 =$$

$$10 + 15 = 25 \quad R3 = 25$$

$$4. \text{LD } R4, (B) \# R4 = 5$$

$$5. \text{MUL } R5, R3, R4 \# R5 = 25 \times 4$$

$$R5 = 125$$

$$6. \text{ST } (A), R5 \# A = R5 \rightarrow A = 125$$