

John Gebasha Munoz Mahog

Parcial 2

$$\begin{array}{r}
 1) a) \overline{35} \overline{12} \\
 \underline{15} \quad \underline{12} \overline{12} \\
 1 \quad 1 \quad \underline{8} \overline{12} \\
 \quad \quad \underline{0} \quad \underline{4} \overline{12} \\
 \quad \quad \quad \underline{0} \quad \underline{2} \overline{12} \\
 \quad \quad \quad \quad \underline{0} \quad 1
 \end{array}$$

En sistema binario 35 se  
escribe  $1100011_2$

$$\begin{array}{r}
 b) \overline{38} \overline{16} \\
 \underline{2} \quad \underline{6} \overline{16} \\
 \quad \underline{0} \quad 1
 \end{array}$$

$$38 = 102_6$$

$$\begin{array}{r}
 c) \overline{49} \overline{18} \\
 \underline{11} \quad \underline{6} \overline{16} \\
 \quad \underline{3} \quad \underline{1} \quad \underline{10} \overline{16} \\
 \quad \quad \underline{4} \quad 1
 \end{array}$$

$$491 = 1413_8$$

$$\begin{array}{r}
 d) \overline{720} \overline{16} \\
 \underline{80} \quad \underline{45} \overline{16} \\
 \quad \underline{0} \quad \underline{13} \quad 2
 \end{array}$$

$$720 = 2(13)0_{16}$$

$$2) a) \overset{8}{1} \overset{7}{0} \overset{6}{0} \overset{5}{1} \overset{4}{0} \overset{3}{1} \overset{2}{0} \overset{1}{1}_2 = 148_{10}$$

$$b) 162_6 = 74_{10}$$

$$\begin{array}{l}
 1 \times 2^7 = 128 \\
 0 \times 2^6 = 0 \\
 0 \times 2^5 = 0 \\
 1 \times 2^4 = 16 \\
 0 \times 2^3 = 0 \\
 1 \times 2^2 = 4 \\
 0 \times 2^1 = 0 \\
 1 \times 2^0 = 1
 \end{array}$$

$$\begin{array}{l}
 1 \times 6^2 + 6 \times 6^1 + 2 \times 6^0 \\
 36 + 36 + 2 \\
 74
 \end{array}$$

$$c) 407_8 = 263_{10}$$

$$4 \times 8^2 + 0 \times 8^1 + 7 \times 8^0$$

$$256 + 0 + 7$$

$$263$$

$$d) FSA_{16} = 3930_{10}$$

$$F \times 16^2 + 5 \times 16^1 + A \times 16^0$$

$$3840 + 80 + 10$$

$$3) 1,75$$