

GRABATO AP1/2018/20

512
256
128
64
32
16
8
4
2
1

$$2) a) (11110001111.011)_2 = (911.375)_{10} = (38F.6)_{16}$$

$$0.011_2 = 0.25 + 0.125 = 0.375_{10}$$

$$b) (222111000.01122)_3 = (28430.156)_9$$

$$c) 666666_7 = (2304400)_6$$

$$\begin{array}{r} 6 \overline{) 1111111} \\ \underline{6} \\ 5 \\ \underline{6} \\ 5 \\ \underline{6} \\ 5 \\ \underline{6} \\ 5 \end{array}$$

$$d) (23456.65432)_8 =$$

$$1011110101110.110101100011010$$

$$= (21302.32.3112031)_4 = (272E.D634)_{16}$$

$$e) (ABCDE.FEDC)_{16} = (2223303132.3332313)_4$$

$$= 101010111110011011110.1111110110111 =$$

$$= (2536336.77556)_8$$

$$\begin{array}{r} 1 1 1 1 1 1 1 1 \\ 3) a) \text{EFOEDCB.FB09}_{16} \\ + \text{FF9D09A.CEF9A}_{16} \\ \hline (\text{1EEABE66.CA02A})_{16} \end{array}$$

$$\begin{array}{r} b) 60001005.0101_7 \\ - 56560461.66503_7 \\ \hline (00110213.01204)_7 \end{array}$$

$$c) 9010101.0B1_{16}$$

$$- FCDCBA.EE9A$$

$$\hline (8042446.1C76)_{16}$$

$$d) \begin{array}{r} 1 \overline{1010} 1 \overline{1010} 1 \overline{1011} \\ 1011010011.1011_2 \end{array}$$

$$1101101111.10101_2$$

$$+ 1011101110001111$$

$$\hline (100100110001.1101)_2$$

$$e) 1010010001.0101_2$$

$$- 111110110.11001_2$$

$$\hline (10011010.10001)_2$$