



Fundação CECIERJ - Vice Presidência de Educação Superior a Distância

Curso de Tecnologia em Sistemas de Computação

Disciplina: Introdução à Informática

AP1 1º semestre de 2014

GABARITO

1.

1.1) B

1.2) C

1.3) E

1.4) C

1.5) E

1.6) D

1.7) C

1.8) B

2.

$$\begin{aligned}\text{a) } (1111.0101)_{10} &= (2127.0051275170 \dots)_8 = \\ &= (10001010111.000000101001010111\dots)_2\end{aligned}$$

$$\text{b) } (12112002001221220.00111021022)_3 = (175061856.043726)_9$$

$$\text{c) } (5504577)_8 = (334230431)_5$$

$$\text{d) } (7606541.0347)_8 = (1F0D61.0E7)_{16} = (13300311201.003213)_4$$

$$\text{e) } (\text{CDC4E.8DB})_{16} = (3156116.4333)_8 = (3031301032.203123)_4$$

3.

a) $(\text{FFCD9EB.B947})_{16} + (\text{EAFEB1C.BBFA})_{16} = (1\text{EACC508.7541})_{16}$

b) $(7001022.0201)_8 - (6763757.76744)_8 = (15042.03044)_8$

c) $(1010104.071)_{16} - (\text{EFC5AD.9ABE})_{16} = (113\text{B56.6C52})_{16}$

**d) $(1100101111.1011)_2 + (1110110110.10111)_2 + (1100101011.10011)_2$
 $= (101000010010.0)_2$**

e) $(1000101001.1001)_2 - (111011011.10111)_2 = (1001101.11011)_2$