



Fundação CECIERJ - Vice Presidência de Educação Superior a Distância

Curso de Tecnologia em Sistemas de Computação

Disciplina: Introdução à Informática

AP1 2º semestre de 2019.

GABARITO

1. 5 pontos (0.625 cada item)

1.1) C

1.2) C

1.3) A

1.4) D

1.5) D

1.6) A

1.7) D

1.8) E

2. 2.5 pontos (0.5 cada item)

a) $(1021.001)_{10} = (1775.000406...)_{8}$
 $= (3FD.00418...)_{16}$

b) $(1122002112120.02112)_3 = (1562476.246)_9$

c) $(4444)_5 = (21300)_4$

d) $(33221100.00123)_4 = (175120.0154)_8 =$
 $= (FA50.06C)_{16}$

e) $(C0C0.AD0F)_{16} = (140300.532074)_8 =$
 $= (30003000.22310033)_4$

3. 2.5 pontos (0.5 cada item)

$$\begin{aligned} \text{a) } (\text{FEFEDE.C0CA})_{16} + (\text{DDEEFF.AA})_{16} &= \\ &= (\text{1DCCDDE.6ACA})_{16} \end{aligned}$$

$$\begin{aligned} \text{b) } (\text{70001010.0001})_8 - (\text{67665544.7766})_8 &= \\ &= (\text{113243.0013})_8 \end{aligned}$$

$$\begin{aligned} \text{c) } (\text{A000001.001})_{16} - (\text{ABCDEF.CEDE})_{16} &= \\ &= (\text{9543211.3132})_{16} \end{aligned}$$

$$\begin{aligned} \text{d) } (\text{1111110011.0101})_2 + (\text{1101101101.10101})_2 + \\ + (\text{1101110111.10111})_2 &= \\ &= (\text{101011011000.1011})_2 \end{aligned}$$

$$\begin{aligned} \text{e) } (\text{1000011001.0101})_2 - (\text{111100111.01011})_2 &= \\ &= (\text{110001.11111})_2 \end{aligned}$$