Sistemas Digitais

Aritmética e códigos binários – soluções

- 1. (a) $10000_{(2)}$
 - (b) $111001_{(2)}$
 - (c) $9E3_{(16)}$
 - (d) $101101_{(2)}$
- 2. (a) $01010110_{(C2)}$
 - (b) $10101010_{(C2)}$
 - (c) $00011010_{(C2)}$
 - (d) $00010111_{(C2)}$
 - (e) overflow. -200 não é representável com 8 bits; intervalo de representação: [-128, 127].
- 3. (a) $11_{(10)}$
 - (b) $-66_{(10)}$
 - (c) $-30_{(10)}$
- 4. (a) $31 \rightarrow 11111$
 - (b) $1647 \rightarrow 11001101111$
- 5. (a) $0110000000100011_{(BCD)}$
 - (b) $00010010.0101_{(BCD)}$
 - (c) $1001.10000001_{(BCD)}$
 - (d) $105_{(10)} = 000100000101_{(BCD)}$
- 6. (a) $6893_{(10)} = 1101011101101_{(2)}$
 - (b) $455_{(10)} = 111000111_{(2)}$

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7.
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