



Faculty of Engineering & Technology – Electrical & Computer Engineering Department
ENCS234 – Quiz#1

Name: _____

#: _____

Question#1: Select the correct answer (2 points each)

- 1) The number $(77.1)_8$ is equivalent to:
 - A. 3F.2
 - B. 3F.8
 - C. 3F.4
 - D. F3.2
 - E. None
- 2) The number 11111 in Two's complement is equivalent to
 - A. 31
 - B. -31
 - C. 1
 - D. -1
 - E. None
- 3) The representation of the decimal number 129.33 in BCD is
 - A. $(1000\ 0001.0101)_{BCD}$
 - B. $(1000\ 0001.0001\ 0001)_{BCD}$
 - C. $(0001\ 0010\ 1001.0011)_{BCD}$
 - D. $(0001\ 0010\ 1001.0011\ 0011)_{BCD}$
 - E. $(0001\ 0010\ 1001.0101)_{BCD}$
 - F. None
- 4) The magnitude of $(0.125)_{10}$ is:
 - A. $(0.010)_2$
 - B. $(0.011)_2$
 - C. $(0.111)_2$
 - D. $(0.100)_2$
 - E. $(0.001)_2$
- 5) 16 complement of 1F1E is
 - A. E0E1
 - B. E0E2
 - C. 1010
 - D. FFFF
 - E. None

6) The simplest form of $F = Y(X + Y) + (X+Y)'Z + YZ$

A. $F = 1$

B. $F = Y$

C. $F = X'Z$

D. $F = Y + X'Z$

E. $F = Y + YZ + X'Z$

7) Given the function $F(a, b, c) = a(b' + c)$. Express F as a product of Maxterms

A. $F(a, b, c) = \Sigma m(4, 5, 7)$

B. $F(a, b, c) = \Pi M(4, 5, 7)$

C. $F(a, b, c) = \Sigma M(0, 1, 2, 3, 6)$

D. $F(a, b, c) = \Pi M(0, 1, 2, 3, 6)$