## Basics of Digital Eletoronics (CE145) Tutorial -1 (CE1/CEZ). &1 Convert the decimal number (250.5) to base 3, base 4, base 7, base 88 base 16 Q2 Convert (225.225)10 to binary, octal and hexadecimal Q3 convert (11010111.110)2 to decimal octal and hexadecimal. Q4 Convert (623-77)8 to decimal, binary and hexadecimal. \$5 Convert (2ACS.D) to deimal, octal and binary. &6 Convert the following numbers to decimals (1) (12121)3 (2) (0.342)6 (3) (50)<sub>2</sub> (A) (8.3)9 (5) (1032.2)4 (6) (198)12

(2)	(225. 275)16			***	(1100001.00111001			
	7.1	e i New M						
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	. in a females							

B (11010111, 110)2

2 (215.75)10

= (327.6)8

= (D7. C),6

4) 
$$(623.77)8 = 6x8^2 + 2x8 + 3 + 7 + 7$$
 $8$ 

· (403. 984375)10

= (110.010 011.111 111)2

= (193. FC)16

B (2A(5.D)16

 $= 2 \times 16^{3} + 10 \times 16^{2} + 12 \times 16 + 5 + 13$ 

= (10949.5)10

2 (0010 1010 1100 0101 1101)2

= (25305.4)8

(6)  $1)(12121)_3$ =  $3^4 + 2x3^3 + 1x3^2 + 2x3 + 1$ =  $(151)_{,0}$ 

ii) (0.342)6

 $\frac{2}{6}$   $\frac{3}{6}$   $\frac{4}{6}$   $\frac{9}{6}$   $\frac{4}{6}$   $\frac{2}{6}$ 

= (0.62037037)10

TIT ) (50)7 = 5X7 = (3570

JU) [8,3) q = 8×9°+3

(1= (8. 33. a. ) 10 - 511 3 - 5

V) (1032.2) 4 = 43 + 3×4+2+2

= (78.5)10

NI) (198) 12 = 122 + 9x12+8 = (260)10

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