

Hardware & Software for Information Technology Practical exercises (Batch 2)

1) We will soon celebrate the "arrin binary, octal, and hexadecimal	mistice day" that en	ded the First	World War, on 1	11/11/1918. Write that date
In Binary:	In Octal:		In Hexadecin	mal:
2) Represent the numbers +128, 1, + and BCD, using in all cases 8 bits. Natural Binary Sign and magnitude Two's Complement BCD	12 and -12, if possible +128	, in natural bin	eary, sign and magn	enitude, two's complement,
3) Perform the following operations in binary:				
0100011 + 001000	1 1011 x 10	01	01000 - 00010	
4) Assuming that your computer us words, use the table shown to dete "NovaIMS" is stored in memory. binary and in hexadecimal ANSWER:	rmine how the next Show the result in	4 20 D0 5 21 6 22 7 BEL 23 8 BS 24 9 25 10 LF 26	33 ! 49 1 6 C2 34 " 50 2 6 C3 35 # 51 3 6 C4 36 \$ 52 4 6 7 37 % 53 5 6 38 & 54 6 7 39 ' 55 7 7 40 (56 8 7 41) 57 9 7 42 * 58 : 7 6C 43 + 59 ; 7 44 , 60 < 7 45 - 61 = 7 46 . 62 > 7	
4) Simplify the Boolean expression $S = AB\bar{C} + ABC + (CA\bar{C})$				
5) What is the Boolean function implemented by each of the following logical gates:				
=D-	=D-	\Rightarrow	⊅ ~	

GOOD WORK!