- 1.22 (a)(746)10=(0111 0100 0110)BCD (b)(746)10=(1011101010)₂ (c)(746)10=(01010111 01010100 01010110)ASCII
 - 1.23 (a)Sign bit=0 Exponent=10000010=(130)₁₀=127+3 Binary=(1.1000 0010)×2³ =(1100.0001)₂
- (b)Sign bit=1 Exponent=01111000=(120)₁₀=127+(-7) Binary=(1.01000110)x2-7 =(0.00000010100011)₂
- <--- minus 3 + 0100 0111 - 0011 0100 1.24 Correction factor (i) -0011 if sum < 9 Ex. 0
 - <--- add 3 + 1100 1 0010 0110 0011 0011 0110 (ii) 0011 if sum > Ex. 3 + 12 + 12 A

Chapter 2

BOOLEAN ALGEBRA

F=0
AB +C
, AB ,
(1) A B
2.1

	i L
F=0	<u> </u>
0	AB C'D
0	000
B 0) A B '
1 (1	(2

L-1	
B'DF 0 1	
DIA'B	
A+B'+C']	
8, C, D A+	
A B C D B	
(3)	

(4)	AIBICIA+B'C'+AIBCIA+BCIF
	0 1 0 0 1 0 0 0
(5)	AIBICID A+B' (A+B')C (A+B')C+D' AB' ((A+B
	0 1 0 0 0 0
	c' c'D 8+C'D A'(8+C'D) C'+A'(8+C'D) CD'
	1 1 1 0
	CD'(C'+A'(B+C'D)) F
	0 6=0

AB' | ((A+B')C+D')AB'

2.2 (1)0=XY'+X'Z'+XYZ

0	7	0	П	0	-	4	0	н
XYZ	0	0	0	0	0	0	0	7
x, z,	1	0	=	0	0	0	0	0
χX	0	0	0	0	T	H	0	0
, 7	-	0	٦	0	Н	0	-	0
۲,	-1	-	0	0	-1	-	0	0
×	-	-	– 1	-1	0	0	0	0
2	0	-	0	-1	0	ᅱ	0	-
>	0	0	-	-1	0	0	-	-
×	0	0	0	0	-	-	-	-

(2)Q=(X'+Y)(X'+Z')(X+Z)

a	0-0-00-0
X+Z	0-0
x, +2,	
×, + ×	
. 2	-0-0-0-0
×	
2	0-0-0-0-
>	00440044
×	0000

23

22