晶片回 [redacted] 期中考訂正

1.

(4). 0010|001 + 0100|1001 (BCD) 運算結果以+六進位表示

```
  0010|0001  29
+ 0100|1001  49
-------------
  0111 0010  78
+      0110
-------------
  0111 1000
```

(5). L的ASCII碼以+六進位表示

A=41H. L=4CH.

(7). t的ASCII碼以+六進位表示

a=61H t=74H.

(8). 't' = 35H. 加入同位元使成為奇同位

0110|0111

(10). 30-13 2's 結果

```
  0011110
+ 1110011   13 2's
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  0010001
```
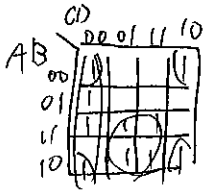

2. (12). $\overline{\overline{AB}(CD+\overline{E}F)(\overline{A}\overline{B}+\overline{C}\overline{D})}$

$= AB + \overline{CD}\cdot\overline{\overline{E}F} + \overline{\overline{A}\overline{B}}\cdot\overline{\overline{C}\overline{D}}$

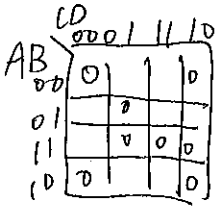
$= AB + (\overline{C}+D)(E+\overline{F}) + ABCD$

3. $F(A,B,C,D)=\Sigma(0,2,4,8,9,10,11,12,13,15)$



$\overline{C}\overline{D}+AD+\overline{B}\overline{D}$

4. $G(A,B,C,D)=\Sigma(1,3,4,6,7,9,11,12)$



$(B+D)\cdot(\overline{B}+C+\overline{D})(\overline{A}+\overline{B}+\overline{C})$

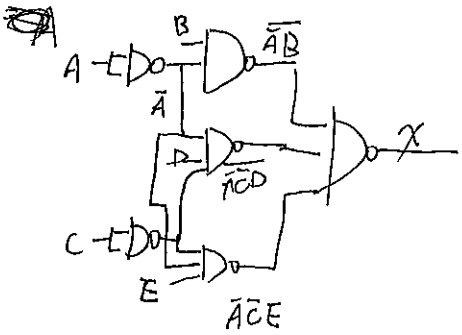
5. $X=\overline{A}[B+\overline{C}CD+\overline{E})]$

$=\overline{A}B+\overline{A}\overline{C}D+\overline{A}\overline{C}E$

$=\overline{\overline{A}B+\overline{A}\overline{C}D+\overline{A}\overline{C}\overline{E}}$

$=\overline{\overline{\overline{A}B}\ \overline{\overline{A}\overline{C}D}\ \overline{A}\overline{C}\overline{E}}$

A B C



6. (11). $A\overline{B}+A\overline{(B+C)}+B(\overline{B+C})$

$= A\overline{B}+\cancel{A\overline{B}\overline{C}}+\cancel{B\overline{B}\overline{C}} = A\overline{B}$

(12). $\overline{AB+AC}+\overline{A}\overline{B}C = \overline{A}\overline{B}\cdot\overline{A}\overline{C}+\overline{A}\overline{B}C$

$=(\overline{A}+\overline{B})(\overline{A}+\overline{C})+\overline{A}\overline{B}C$

$=\overline{A}\overline{A}+\overline{A}\overline{B}+\overline{A}\overline{C}+\overline{B}\overline{C}+\overline{A}\overline{B}C$

$=\overline{A}+\overline{B}\overline{C}$