Q1)

$$R_{24} \leftarrow M[R_{20}]$$

NW = 1   write

$$R_{20} \rightarrow \cancel{00000}\ 11000$$

$$2^k = 2^5 = 32$$

Ⓑ as AA = 0×18 = 24

$$(16^0 \times 8) + (16^1 \times 1) = 24$$

ⓐ as AA = 0×14 = 20

$$(16^0 \times 4) + (16^1 \times 1) = 20$$

Q2)

$$2^4 = 16$$

Q4) $2^3 + 2^5 + 2^5 + 1$

$$= 3 + 8 + 5 + 1 = 14$$

Q8) $R_{30} \leftarrow R_{20}$ AND R_{16}

FS = 01000

(B) AS MD = 0

Q9)

Using Q11,

	00	01	11	10
0				1
1		1	1	1

101
111   110
———   010
$S_2 Y$ ———
            $S_1 Y'$

$S_2 y_i + S_1 y_i$

$A_2 = S_2 y_2 + S_1 y_2'$

S_1

S_2	S_1	S_0		A	B	C_{iu}
0	0	0		0000	X	0
0	0	1		0000	X	1
0	1	0		$\overline{Y}$	X	0
0	1	1		$\overline{Y}$	X	1
1	0	0		Y	X	0
1	0	1		Y	X	1
1	1	0		1111	X	0
1	1	1		1111	X	1

S_{2i}	S_{1i}	Y_i	A_i		S_2	S_1	A
					0	0	$\overline{0000}$
0	0	0	0		0	1	$\overline{Y}$
0	0	1	0		1	0	Hav Y
0	1	0	1		1	1	1111
0	1	1	0				
1	0	0	0				
1	0	1	1		(2, 5, 6, 7)		
1	1	0	1				
1	1	1	1				