

【1】

(1)	④	(2)	⑦	(3)	②・③
(4)	⑥	(5)	①・④	(6)	⑤

【2】

(1)	A：ジュラルミン		B：アルマイト	
	C：ボーキサイト		D：アルミナ	
(2)	(a)	$\text{Al}_2\text{O}_3 + 2\text{NaOH} + 3\text{H}_2\text{O} \longrightarrow 2\text{Na}[\text{Al}(\text{OH})_4]$		
	(b)	$\text{Na}[\text{Al}(\text{OH})_4] + \text{HCl} \longrightarrow \text{Al}(\text{OH})_3 + \text{NaCl} + \text{H}_2\text{O}$		
(3)	一酸化炭素 11.2 kg		二酸化炭素 4.40 kg	
(4)	(a)	$\text{Fe}_2\text{O}_3 + 2\text{Al} \longrightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$		(b) 426 kJ
(5)	Na原子 12 個		F原子 24 個	
(6)	(a)	⑥	(b)	$\frac{4\sqrt{3}M}{9a^2bN_A} \text{ [g/cm}^3\text{]}$

【3】

(1)	④			(2)	0.33 L		
(3)	(a)	0.62 mol/kg			(b)	100.64 °C	
(4)	(a)	$4.0 \times 10^{-2}$ mol/L			(b)	60 g/mol	
(5)	(a)	-4 °C	(b)	50 g		(c)	81 g

【4】

(1)	$C_9H_{18}O_2$			(2)	$CH_3-CH_2-\overset{*}{\underset{\begin{array}{c}   \\ CH_3 \end{array}}{CH}}-\overset{\begin{array}{c}    \\ O \end{array}}{C}-OH$	
(3)	$\begin{array}{c} I \\   \\ H-C-I \\   \\ I \end{array}$			(4)	$CH_3-CH_2-\overset{\begin{array}{c}    \\ O \end{array}}{C}-OH$	
(5)	8 種類			(6)	4 種類	
(7)	(a)	$\begin{array}{ccc} \begin{array}{c} H \\ \diagdown \\ C \\ \diagup \\ H \end{array} = \begin{array}{c} H \\ \diagup \\ C \\ \diagdown \\ CH_2-CH_3 \end{array} & \begin{array}{c} H \\ \diagdown \\ C \\ \diagup \\ H_3C \end{array} = \begin{array}{c} H \\ \diagup \\ C \\ \diagdown \\ CH_3 \end{array} & \begin{array}{c} H \\ \diagdown \\ C \\ \diagup \\ H_3C \end{array} = \begin{array}{c} CH_3 \\ \diagup \\ C \\ \diagdown \\ H \end{array} \end{array}$				
	(b)	3 種類				
(8)	20					