

I

[1] (i) (ア) 4 (イ) 2 (ウ) 6

(ii) 1, 5

(iii) 面心立方格子

(iv) 4

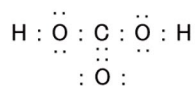
[2] (i) 3

(ii) (ア) 6 (イ) 5 (ウ)  $2.5 \times 10^5$  [Pa]  
(エ) 25

[3] (i)  $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$

(ii) 5

[4]



II

[1] 7

[2] 3

[3] 1

[4]  $-6.5 \times 10^{-2}$  [g]

[5]  $\text{Zn} + 2\text{H}_2\text{O} + 2\text{NaOH} \rightarrow \text{Na}_2[\text{Zn}(\text{OH})_4] + \text{H}_2$

[6] 非共有電子対

[7] (b)  $\text{Zn}(\text{OH})_2$       (e)  $\text{ZnS}$

[8] (c) 4      (d) 3

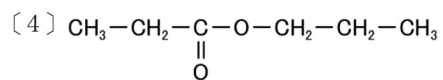
[9] 4

III

[1] ギ酸 (メタン酸)

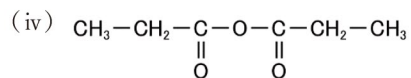
[2] 6

[3] 4



[5] 8

[6] (i) 6                      (ii) 4                      (iii) 1



[7] 2, 3

IV

〔1〕 界面活性剤

〔2〕 4

〔3〕 5

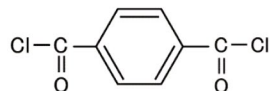
〔4〕 (i) 付加縮合 (ii) HCHO

〔5〕 (i) 2, 5

(ii) (ア) *p*-フェニレンジアミン



テレフタル酸ジクロリド



(イ) 4

〔6〕 (i) NH<sub>3</sub>

(ii) 3

(iii) 6