

化学 関西大学 全学日程 (2/2実施)

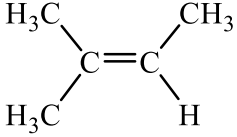
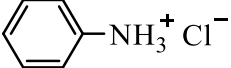
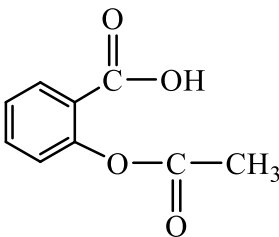
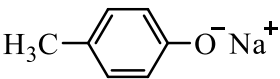
[ I ]

- (i) (1) (ウ) (2) アルカリ土類金属 (3) (ク) (4) K (5) He  
 (6)  $4\text{HCl} \rightarrow \text{MnCl}_2 + 2\text{H}_2\text{O} + \text{Cl}_2$  (7) (カ) (8)  $\text{K}_3[\text{Fe}(\text{CN})_6]$
- (ii) (1) (オ) (2) (カ) (3)  $6\text{H}_2\text{O}$  (4)  $2\text{Na}[\text{Al}(\text{OH})_4]$  (5)  $5.4 \times 10^{-1}$  (6)  $2.0 \times 10^{-1}$   
 (7) (コ)
- (iii) (1)  $\text{Mg}^{2+} + 2\text{OH}^-$  (2)  $[\text{Mg}^{2+}][\text{OH}^-]^2$  (3) (イ) (4)  $3.1 \times 10^{-4}$  ( $3.4 \times 10^{-4}$ )  
 (5)  $1.0 \times 10^{-14}$  (6)  $3.3 \times 10^{-11}$  ( $3.0 \times 10^{-11}$ ) (7) (ウ)

[ II ]

- (i) (1) (イ) (2) 蒸発平衡(気液平衡) (3) 蒸気圧(飽和蒸気圧) (4) (エ) (5) (オ)  
 (6) (ケ) (7) 11
- (ii) (1) (エ) (2) 22.4 (3) 1 (4) (カ) (5) (ウ) (6) (エ)
- (iii) (1) (ウ) (2) (オ) (3)  $1.7 \times 10^{-3}$  (4) 5.9 (5) 5.1 (6) 2.0

[ III ]

- (i) (1) (オ) (2) (キ) (3) (ア) (4) (ウ) (5) (イ) (6)   
 (7) (コ) (8)  $\text{CH}_3-\text{CH}_2-\text{C}\equiv\text{C}-\text{CH}_2-\text{CH}_3$
- (ii) (1)  $\text{C}_8\text{H}_{14}\text{O}_2$  (2) 72 (3)  $\text{CH}_2=\text{CH}-\text{C}(=\text{O})-\text{OH}$   
 (4) (イ) (5) 88 (6) (カ) (7)  $\text{CH}_2=\text{CH}-\text{C}(=\text{O})-\text{O}-\overset{*}{\text{C}}(\text{CH}_3)-\text{CH}(\text{CH}_3)-\text{CH}_3$
- (iii) (1)  (2)   
 (3) (ア) (4)  (5) 