

# 一般入試前期A日程1日目

## 化 学

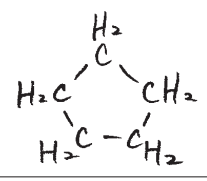
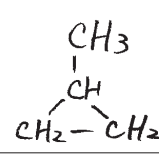
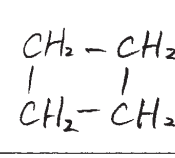
### I

|     |   |     |                                  |                  |
|-----|---|-----|----------------------------------|------------------|
| (1) | 1) ②<br>2) ①  | (2) | 3) $\sqrt{\frac{K_b}{c}}$        | 4) $\sqrt{ck_b}$ |
| (3) | 5) $1.0 \times 10^{-2} \text{ mol/L}$   | 6)  | $6.7 \times 10^{-3}$             | 7) 2.6%          |
| (4) | $\text{H}_2\text{SO}_4 + 2\text{NH}_3 \longrightarrow (\text{NH}_4)_2\text{SO}_4$ |     |                                  |                  |
| (5) | $1.2 \times 10^{-3} \text{ mol}$  | (6) | $2.8 \times 10^{-3} \text{ mol}$ |                  |

### II

|     |  |     |                                     |         |
|-----|--|-----|-------------------------------------|---------|
| (1) | A ⑤  | B ② | C ⑥                                 | D ⑧     |
| (2) | $\text{Pb} + \text{SO}_4^{2-} \longrightarrow \text{PbSO}_4 + 2e^-$  |     |                                     |         |
| (3) | $\text{PbO}_2 + \text{SO}_4^{2-} + 4\text{H}^+ + 2e^- \longrightarrow \text{PbSO}_4 + 2\text{H}_2\text{O}$ |     |                                     |         |
| (4) | ②  | (5) | 1) $5.0 \times 10^{-2} \text{ mol}$ | 2) 2.4g |
| (6) | $2\text{PbSO}_4 + 2\text{H}_2\text{O} \longrightarrow \text{Pb} + \text{PbO}_2 + 2\text{H}_2\text{SO}_4$   |     |                                     | (7) ③   |

### III

|     |  |   |   |     |                                   |
|-----|--|---|---|-----|-----------------------------------|
| (1) | $\text{C}_m\text{H}_{2m}$  | (2)   |  | (3) | ④                                 |
| (4) |   |  |   |     |                                   |
| (5) | $\text{Br}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{Br}$  | (6)   | 121 mg  | (7) | $\text{C}_4\text{H}_{10}\text{O}$ |
| (8) |  | 1)  | 2-ブチノール   |     |                                   |
|     |  | 2)  | イソブチノール (= 2-ブチノール)   |     |                                   |
| (9) | $\text{CH}_3-\text{O}-\text{CH}_2-\text{CH}_2-\text{CH}_3$ , $\text{CH}_3-\text{O}-\overset{\text{CH}_3}{\underset{ }{\text{C}}}-\text{CH}_3$ , $\text{CH}_3-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_3$ |   |   |     |                                   |