

2018年天津红桥区高三二模化学试卷

一、选择题

- 1 D 2 C 3 A 4 C 5 D 6 B

二、填空题

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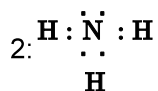
(1) ① 氧化

② 取样，滴加 KSCN 溶液，若溶液呈血红色，说明原溶液中有 Fe^{3+} ，反之则没有

③ $1:4N_A$

2:引火铁表面积很大，加快了与氧气反应速度

(2) ① $1:\text{Fe}_4\text{N}$



② $4\text{Fe}(\text{OH})_2 + \text{O}_2 + 2\text{H}_2\text{O} = 4\text{Fe}(\text{OH})_3$

③ $\text{Fe}_2\text{O}_3 + 2\text{NH}_3 \xrightarrow{\text{高温}} 2\text{Fe} + \text{N}_2 + 3\text{H}_2\text{O}$

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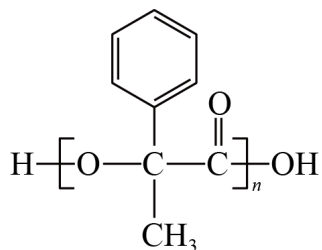
(1) 1:消去反应

2: NaOH 水溶液、加热

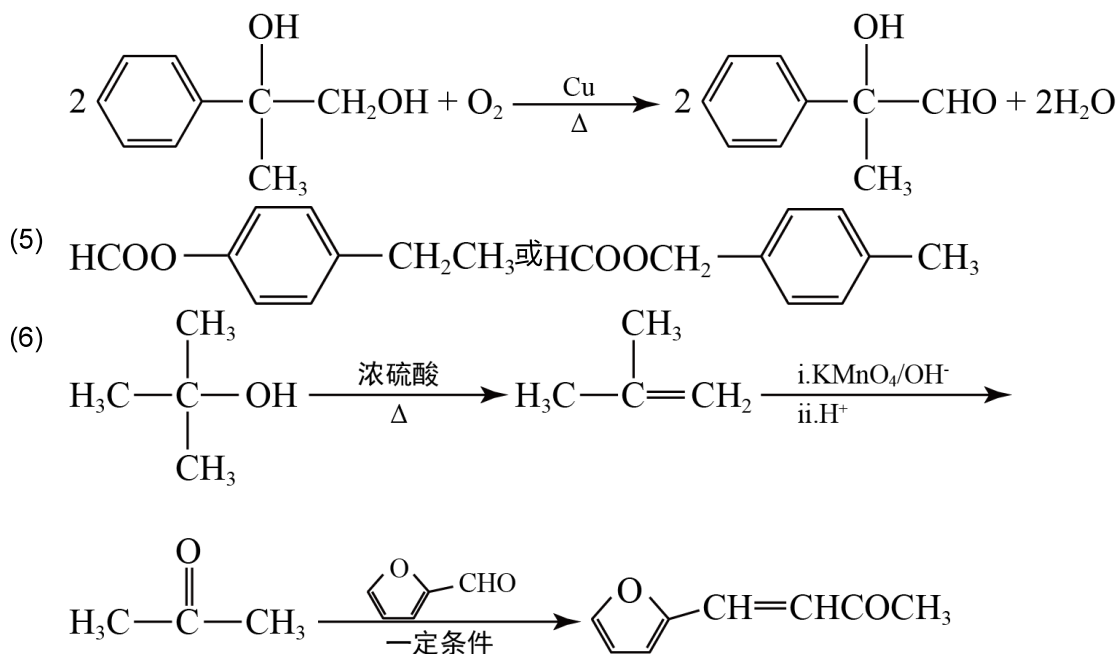
(2) 1:羟基

2:醛基

(3)



(4)



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- (1) B
(2) 三价铁离子会过氧化氢的分解有催化作用
(3) 1:AC

$$2:3.2 \leq \text{pH} < 3.7$$

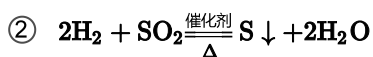
- (4) ① N_2
② 吸收二氧化硫
③ 1:浓氢氧化钡溶液



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- (1) $\text{CH}_4(\text{g}) + 2\text{SO}_2(\text{g}) = \text{CO}_2(\text{g}) + 2\text{S}(\text{s}) + 2\text{H}_2\text{O}(\text{l}) \quad \Delta H = -295.9 \text{ kJ/mol}$

- (2) ① 1: H_2S
2: 300°C
3: $2 \times 10^{-3}/t_1 \text{ mol}/(\text{L} \cdot \text{min})$



- (3) ① <
② 36.45 mol/L

- (4) $c(\text{Na}^+) > c(\text{HSO}_3^-) > c(\text{SO}_3^{2-}) > c(\text{H}^+) = c(\text{OH}^-)$