

2018-2019 南开中学高二期中

一、单选题 (每小题2分 , 共40分)

1 C 2 A 3 B 4 D 5 A 6 C 7 C 8 B 9 D 10 A 11 D

12 D 13 D 14 A 15 D 16 B 17 D 18 A 19 D 20 B

二、填空题

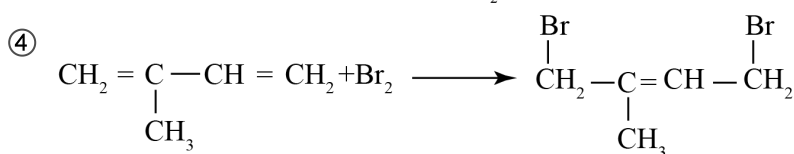
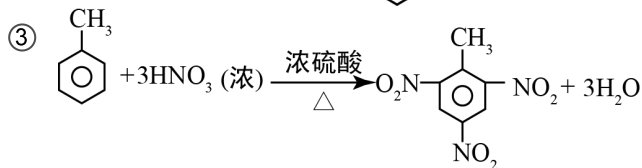
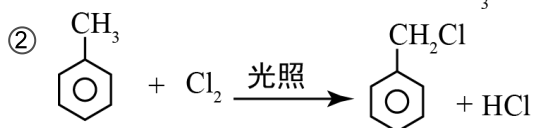
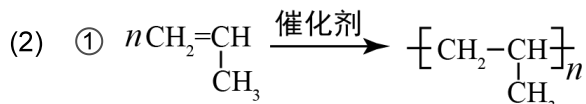
21 (1) ① 溴水 洗气

② NaOH 溶液或 CaSO₄ 溶液 洗气

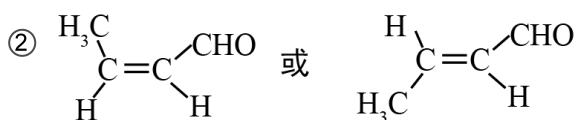
③ NaOH 溶液 洗涤 , 分液 , 干燥 , 蒸馏

④ CaO 蒸馏

⑤ NaOH 溶液 洗气

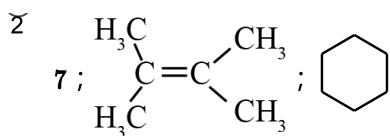


(3) ① C₄H₆O



(4) ① C₆H₁₂

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- (1) 不可以，水加入浓硫酸中放出大量热会造成液体飞溅
- (2) 1:防止暴沸
2:停止加热，加沸石
- (3) 1:分液漏斗
2:冷凝管
- (4) C
- (5) 下
- (6) 液体中存在浓 H_2SO_4 ，温度过高正丁醇会生成正丁醚或丁烯等副产物
- (7) 50

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- (1) $\begin{array}{|c|c|c|c|c|} \hline \uparrow\downarrow & \uparrow & \uparrow & & \\ \hline \end{array}$
4s 3d
- (2) $\text{H}_2\text{O} > \text{NH}_3 > \text{CH}_4$
- (3) 1:3:1
2: sp^2
3:与水形成氢键
- (4) TiO_2
- (5) ① $[\text{C}::\text{N}]^-$; 直线型
② $2\text{CNO}^- + 3\text{ClO}^- + 2\text{H}^+ = \text{N}_2 + 2\text{CO}_2 + 3\text{Cl}^- + \text{H}_2\text{O}$
- (6) 1:12
2: $\frac{\sqrt{2}}{8} \frac{M}{N_A \cdot r^3}$