

2017~2018学年天津和平区天津市第一中学高一下学期期末化学试卷(答案)

一、选择题

1. D

2. B

3. A

4. B

5. A

6. C

7. D

8. D

9. B

10. B

11. C

12. D

13. C

14. D

15. D

16. C

17. D

18. B

19. D

20. C

21. D

22. D

23. B

24. C

25. D

二、填空题

26. (1) =

(2) >

(3) <

(4) $\text{CH}_4(\text{g}) + \text{H}_2\text{O}(\text{g}) = \text{CO}(\text{g}) + 3\text{H}_2(\text{g}) \quad \Delta H = +2a \text{ kJ/mol}$

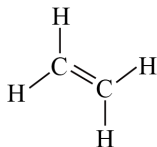
(5) $\text{CH}_3\text{OH}(\text{l}) + \frac{3}{2}\text{O}_2(\text{g}) \xrightarrow{298.15\text{k}, 101\text{kPa}} \text{CO}_2(\text{g}) + 2\text{H}_2\text{O}(\text{l}) \quad \Delta H = -32b \text{ kJ} \cdot \text{mol}^{-1}$

(6) $452.5 \text{ kJ} \cdot \text{mol}^{-1}$

(7) ① BD

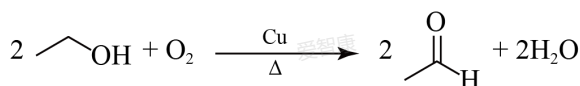
② $\frac{0.2}{t} \text{ mol} \cdot \text{L}^{-4} \cdot \text{min}^{-1}$

27. (1)



(2) b、c

(3) 醇羟基;



(4) ; 稀 NaOH ; 分液

(5) ; 取代反应; 饱和 Na_2CO_3

28. (1) ① A 或 B ; $2\text{NH}_4\text{Cl} + \text{Ca}(\text{OH})_2 \triangleq 2\text{NH}_3 \uparrow + \text{CaCl}_2 + 2\text{H}_2\text{O}$ 或

$\text{NH}_3 \cdot \text{H}_2\text{O} \triangleq \text{NH}_3 \uparrow + \text{H}_2\text{O}$;

② $\text{d} \rightarrow \text{c} \rightarrow \text{f} \rightarrow \text{e} \rightarrow \text{i}$;

(2) 红棕色气体慢慢变浅 ; $8\text{NH}_3 + 6\text{NO}_2 \xrightarrow{\text{催化剂}} 7\text{N}_2 + 12\text{H}_2\text{O}$; Z 中 NaOH 溶液产生倒吸现象 ; 反应后气体分子数减少, Y 管中压强小于外压

29.

(1) 第二周期第 VI_A 族 ; 34

(2) $S^{2-} > O^{2-} > Al^{3+}$

(3) $Al - 3e^{-} + 4OH^{-} = AlO_2^{-} + 2H_2O$

(4) $\begin{array}{c} H & H \\ | & | \\ H : N : N : H \\ | & | \\ H & H \end{array}$

$N_2H_4(l) + 2H_2O_2(l) \rightarrow N_2(g) + 4H_2O(g) \quad \Delta H = -32a \text{ kJ} \cdot \text{mol}^{-1}$

(5) 0.4 ; 4.48