

2020

(2020-05-17)

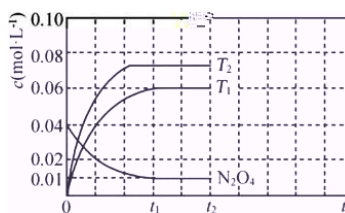
1-6 B B D A C D

- 29 9 1 1 1 2 1
 2 3 $M \cdot \lambda^t$ 2
- 30 11 1 1 2
 CO_2 CO_2 3
 3 I O_2 CO_2 2 II O_2 CO_2 2
 I II
 O_2 CO_2 3
- 31 9 1 RNA $\xrightarrow{\text{逆转录}}$ DNA $\xrightarrow{\text{转录}}$ RNA $\xrightarrow{\text{翻译}}$ 蛋白质 2 2 1
 3 1 T B
 3
 4 HIV 2
- 32 10 1 X 1 F_2
 3:1 A/a B/b X 3
 2 AAX^bY AaX^bY aaX^bY 2 3
 4
- 37 (2 15) 1 2 B
 Na_2SO_4 3
 4
- 38 (2 15) 1 2 2 CTG 2 3 I I 2
 4 2 mlacZ 2
 5 3
 6 2

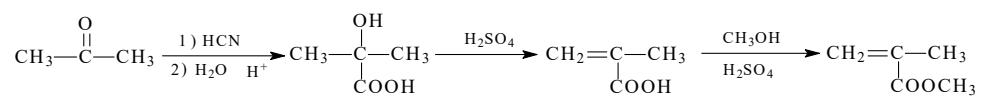
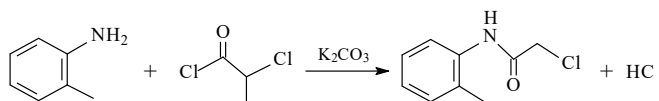
7-13BACDBDB

26. 12 2 (1) $MoO_3 + Na_2CO_3 \rightleftharpoons Na_2MoO_4 + CO_2 \uparrow$
 2 $MoS_2 + 9ClO_2 + 6OH^- \rightleftharpoons MoO_4^{2-} + 9Cl^- + 2SO_4^{2-} + 3H_2O$ (3) $0.01 mol \cdot L^{-1}$ 4
 7.28×10^{-4} (5) $MoS_2 + Li^+ + e^- \rightleftharpoons Li(MoS_2)$
27. 15 2 (1) $N_3 + H_2O \rightleftharpoons HN_3 + OH^-$
 (2) $t-BuOH + HNO_2 \xrightarrow{40^\circ C} t-BuONO_2 + H_2O$ (3) () 1
 (4) $N_2 + 65\% AC$

28. 16 (1) AE 0.3M kJ
 (2) $\Delta_1 > 0$ II a
 I (N₂O₂)
 II



- 35 15 1 1 1 2 2 5 2
- 3 $HO-N \begin{matrix} \diagup O \cdots H \\ \diagdown O \cdots H \end{matrix} O \cdots HO-N \begin{matrix} \diagup O \\ \diagdown O \end{matrix}$ 2 4 X 1 sp^3 1
- SO_4^{2-} (ClO_4^- PO_4^{3-}) 1 CCl_4 (CBr_4 Cl_4 SiF_4) 1
 O^{2-} 1 8 2 $\frac{4 \times 62}{(\times 10^{-10})^3 \times A}$ 2
36. [— 5] 15
 1 2- 2 1 2 $C_{13}H_{20}ON_2$ 2 1



20 AD

$$\frac{U_{1m}}{U_{2m}} = \frac{n_1}{n_2} = \frac{1}{k}, \quad \frac{I_1}{I_2} = \frac{n_2}{n_1}, \quad \frac{U_{2m}}{\sqrt{2}} = \frac{kB_0Lv}{\sqrt{2}},$$

$$I_2 = \frac{U_2}{R} = \frac{kB_0Lv}{\sqrt{2}R}, \quad I_1 = \frac{k^2B_0Lv}{\sqrt{2}R}, \quad \frac{U_{2m}}{\sqrt{2}} = \frac{kB_0Lv}{\sqrt{2}},$$

21 AC M P h M P $mgh = \frac{1}{2}mv^2 - 0$

$$= \sqrt{2} \quad P \quad mg - qE \quad h = \frac{1}{2}mv^2 - 0 \quad r = 2h$$

$$mg + qE \quad h = \frac{1}{2}mv^2 - 0 \quad v = \sqrt{2(gh - qEh)}$$

B + P C $v = \sqrt{2(gh - qEh)}$ P D AC

22 (1)D (2) $\frac{x_2^2 - 2x_1^2}{4hx_0}$ 1

$$v_1 = \sqrt{\frac{2h}{g}}, \quad v_2 = \sqrt{\frac{g}{2h}}, \quad v_0 = 1/2 v_1^2$$

$$v_1^2 = \frac{2h}{g}, \quad v_2^2 = \frac{g}{2h}, \quad v_0^2 = \frac{1}{4} \frac{2h}{g} = \frac{h}{2g}$$

23 (1) 1 (2) $\frac{U_2}{U_1 - U_2} = 0$

(3) 2 (0.04 8.8)(0.04 8.6 0.04 9.0)

(1) (2)

$$\frac{U_2}{R_x} = \frac{U_1 - U_2}{R_0}, \quad \frac{U_2}{U_1 - U_2} = 0$$

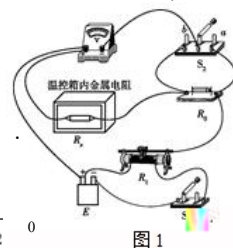


图 1

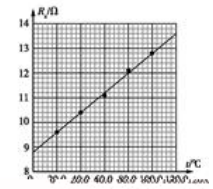


图 2

(3) $= 0.04 \Omega / ^\circ C, = 8.8 \Omega, = (0.04 \ 8.8) \Omega$

24

(1) $\Delta = 4 \quad = \frac{F_0}{4mg}$

(2) 1 $(v_0) = 1/2 v_1^2 \quad v_1 = \sqrt{\frac{F_0L}{2m}}$

2 $v_2 = \frac{1}{3} \sqrt{\frac{2F_0L}{m}}$

3 $(v_3) = 1/2 \cdot 3 v_2^2 \cdot 3 \quad v_3 = \sqrt{\frac{7F_0L}{18m}}$

4 $(v_4) = (v_2) \cdot 4 \quad v_4 = \frac{1}{4} \sqrt{\frac{7F_0L}{2m}}$

$\Delta = v_0^2 \quad (v_0) \quad (v_2) \cdot 4^2 \quad \Delta = \frac{5}{16} v_0^2$

