

## 2019年五华区一模物理参考答案

### 一、选这题

题目	1	2	3	4	5	6	7	8
答案	C	D	B	B	C	C	A	D

### 二、填空题

9. 响度，声源处

10. 电磁波，自己

11. 电荷，吸引

12.  $3.36 \times 10^6$ ，热传递，0.084

13. 投影仪，靠近

14. N，S，减弱

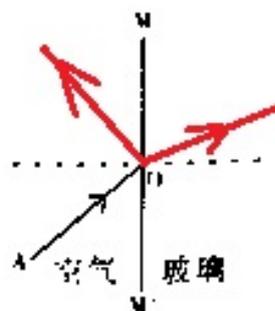
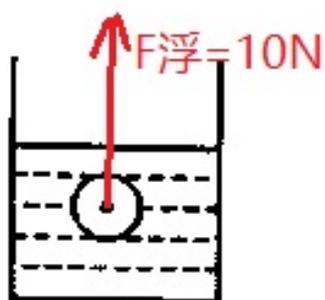
15. B，B

16. 省力，50

17. 20，2.1

### 三、作图与实验题

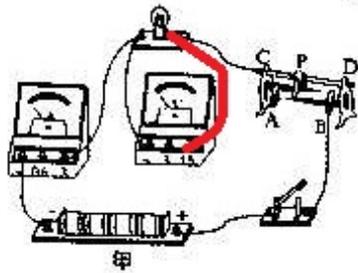
18. (1) 81.4      (2)      (3)



19. (1) ①晶体, 48 ②固液共存, C

(2) ①均匀 ②B ③取暖, 作冷却剂, 散热等 (合理即可)

20. (1) ①



② A ③小灯泡断路 ④3.8 2.66 ⑤变暗

(2) ①水平 ②导体运动方向 ③电源

21. (1) 水平, 匀速, 二力平衡 (2) 压力越大, 滑动摩擦力越大 (3) 2, 3 (4) 3 (5) 2.8 水平向右 (6) 2.8 不变

#### 四、综合题

22. (9分)

$$(1) p = \rho_{\text{水}}gh = 1.0 \times 10^3 \text{kg/m}^3 \times 10 \text{N/kg} \times 12 \text{m} = 1.2 \times 10^5 \text{pa}$$

$$(2) F_{\text{浮}} = G_{\text{排}} = m_{\text{排}}g = 6 \times 10^6 \text{kg} \times 10 \text{N/kg} = 6 \times 10^7 \text{N}$$

$$(3) F_{\text{推}} = F_{\text{阻}} = 0.1mg = 0.1 \times 6 \times 10^6 \text{kg} \times 10 \text{N/kg} = 6 \times 10^6 \text{N}$$

$$P = FV = 6 \times 10^5 \text{N} \times 15 \text{m/s} = 9 \times 10^7 \text{W}$$

23. (8分)

(1) 只闭合  $S_1$  只有 L 接入电路, L 正常发光,  $U_{\text{总}} = U_L = 6 \text{V}$

$$R_L = \frac{(U_0)^2}{P_0} = \frac{(6 \text{V})^2}{3 \text{W}} = 12 \Omega \quad (2 \text{分})$$

(2) 开关  $S_1$ 、 $S_3$  闭合, 灯 L 与 R 并联

$$U_{\text{总}}=U_L=U_R=6V \quad P_L=3W \quad P_R = \frac{U^2}{R} = \frac{(6V)^2}{6\Omega} = 6W$$

$$P_{\text{总}}=P_L+P_R=3W+6W=9W$$

$$W_{\text{总}}=P_{\text{总}}t = 9W \times 60s = 540J$$

$$(3) \quad \because P = \frac{U^2}{R}$$

$\therefore R_{\text{总}}$ 最大时,  $P_{\text{总}}$ 最小, 只闭合 S2 时, 灯 L 与 R 串联

$$R_{\text{总}}=R_L+R=12\Omega+6\Omega=18\Omega$$

$$P_{\text{总}} = \frac{(U_{\text{总}})^2}{R_{\text{总}}} = \frac{(6V)^2}{18\Omega} = 2W$$

24. (7分)

$$F_{\text{浮乙}} = G_{\text{水}} + G_{\text{瓶}} \dots\dots\dots ①$$

$$F_{\text{浮丙}} = G_{\text{水}} + G_{\text{瓶}} + G_A \dots\dots\dots ②$$

②-①得

$$G_A = F_{\text{浮丙}} - F_{\text{浮乙}} = \rho g (V_{\text{排丙}} - V_{\text{排乙}}) = \rho g S (h_3 - h_2)$$

$$m_A = \rho S (h_3 - h_2)$$

$$\rho_A = \frac{m_A}{V_A} = \frac{\rho S (h_3 - h_2)}{S_A h} = \frac{2\rho (h_3 - h_2)}{h}$$

