

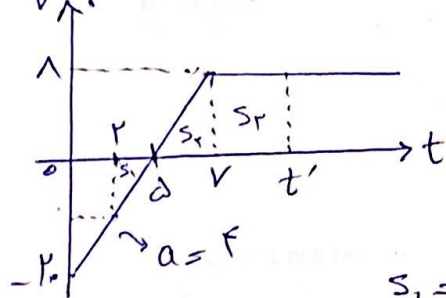
نوین کنکور

کنکور

امتحان نهایی

**نوین کنکور
شرط لازم و کافی
برای موفقیت**

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$$x = \frac{1}{v} a t^r + v \cdot t + x.$$

$$1 = \frac{1}{v} \times \Sigma \times t^r + (-v) \cdot t$$

$$\boxed{t = v} \quad , t = \Lambda \Sigma$$

$$S_1 = \Delta x = x_r - (\Sigma v)$$

$$\frac{x(-v)}{v} = x_r - \Sigma v \quad x_r = -\Lambda$$

$$S_r = \Delta x \Rightarrow \frac{v \times \Lambda}{v} = x_r - (-\Lambda)$$

$$S_r = \Delta x \Rightarrow (t' - v) \times \Lambda = \frac{1}{v} -$$

$$v_1 = v. \quad \Delta x = ? \quad v = .$$

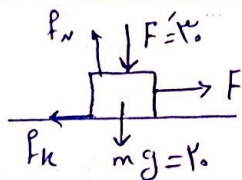
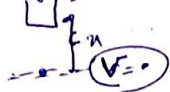
$$\Rightarrow \Delta x = -\frac{1}{v} a t^r$$

$$v_r = -\frac{1}{v} a \times 1^r$$

$$v^r - v_1^r = v \cdot a \Delta x$$

$$0 - v_r = v(-\Sigma) \Delta x$$

$$\boxed{\Delta x = \Sigma \delta \cdot m}$$



$$\text{دور حرکت: } F - F_k = m a$$

$$F - \mu_k (mg + F') =$$

$$\text{دور حرکت } F - F_k = m a \Rightarrow 17.8 - \mu_k$$

$$17.8 - \frac{1}{\varepsilon}$$

$$\frac{v_i = 18 \text{ m/s}}{17.8 \text{ m}} \quad v_f = 0$$

$$v_f^2 - v_i^2 = 2 a \Delta x$$

$$0 - 18^2 = 2 a \times 17.8 \Rightarrow$$

$$-F_k = m a \Rightarrow -\mu_k \cdot mg = m a \Rightarrow \mu_k = \frac{-a}{-g} = \frac{-1.1}{-9.8} = 0.11$$

$$a = r \omega^2 = r \times \frac{\Sigma \pi^2}{T^2}$$

$$\frac{a_B}{a_A} = \frac{r_B}{r_A} \times \left(\frac{T_A}{T_B} \right)^2 \Rightarrow r \times \left(\frac{\sqrt{r}}{r} \right)^2 \Rightarrow r \times \frac{r}{17} = \frac{1}{\varepsilon}$$

$$\left(\frac{T_A}{T_B} \right)^2 = \left(\frac{r_A}{r_B} \right)^3 \Rightarrow \frac{1}{17} = \left(\frac{r_A}{r_B} \right)^3 \Rightarrow \frac{r_A}{r_B} = \frac{1}{\sqrt[3]{17}}$$

$$\frac{n_r}{n_i} = \frac{\lambda_i}{\lambda_r} = \left(\frac{F}{r} \right)$$

$$\lambda_r = F \delta, nm$$

$$V = \lambda F = \frac{r \delta}{1} \times r_{0.0} = \delta, nm/s$$

$$V = \frac{r}{D} \sqrt{\frac{F}{\rho \pi}}$$

$$\delta_0 = \frac{r}{D} \sqrt{\frac{4}{1.0 \times 10^3}} \Rightarrow$$

$$k_{max} = hf - w_0 \Rightarrow \frac{1}{r} \times 9 \times 10^{-11} \times \left(\frac{F}{r} \times 10^{-10} \right)^2 = 2 \times 10^{-18} \times 1.7 \times 10^{-10}$$

$$F = 1.1 \times 10^{-10} Hz$$

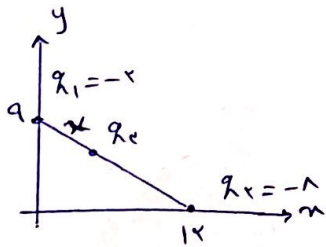
$$\Sigma, nm \left\{ \begin{array}{l} \lambda < 1.1 \times 10^{-10} \end{array} \right.$$

$$E = \frac{hc}{\lambda} \Rightarrow E_1 = \frac{12 \Sigma}{e} = 11 eV$$

$$E_r = \frac{12 \Sigma}{1.1} \approx 11$$

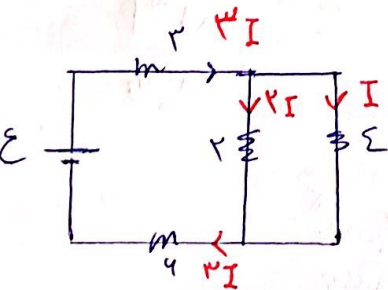
$$E_T = \sqrt{1 + \left(\frac{1}{\Sigma}\right)^2} = \frac{0}{\Sigma} \times 1.5 \times \frac{1}{c} = \frac{1}{1.1} \times 0.1 \times \frac{1}{c}$$

$$\frac{\sigma_A}{\sigma_B} = \frac{\rho_A}{\rho_B} \times \left(\frac{r_B}{r_A}\right)^2 = \frac{1.2}{0.8} \times \left(\frac{1}{2}\right)^2 = \left(\frac{1}{2}\right)$$



$$r = \sqrt{18^2 + 9^2} = 20 \text{ cm}$$

$$\frac{x_1}{x_2} = \frac{y_1}{y_2} \Rightarrow \frac{x_1}{x_2} = \frac{y_1}{y_2}$$



$$\frac{P_{in}}{P_{out}} = \frac{RI^2}{RI^2} = \frac{7V(PI)^2}{PI^2}$$

$$L_A = 2L_B$$

$$N_A = 2N_B$$

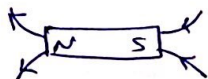
$$B = \mu \cdot \frac{NI}{L}$$

$$L = \frac{k \mu \cdot N^2 A}{l}$$

$$\frac{B_A}{B_B} = \frac{\frac{N_A^2}{A_A} \times I_A \times \frac{L_B}{\mu}}{\frac{N_B^2}{A_B} \times I_B \times \frac{L_A}{\mu}} \quad (1)$$

$$\frac{L_A}{L_B} = \frac{N_A^2}{N_B^2} \times \frac{A_A}{A_B} \times \frac{L_B}{L_A} = 4 \times \frac{1}{2}$$

ر باید توجه داشته باشید که در صورتی که مقادیر ناچهارم عدد
آنها متقابل هم باشند



$$RI = -N \frac{\Delta \Phi}{\Delta t} \Rightarrow 15 \times I = \left| -200 \times \frac{0.008 - 0.002}{0.1} \right| =$$

$$P - P_0 = \rho g h \Rightarrow (1.01 - 1.03) \times 10^5 = \rho \times 1.0 \times 0.15 \quad \rho =$$

$$P - P_0 = \rho g h = 13.7 \times 10^3 \times 1.0 \times 0.1 = \boxed{1.37 \times 10^3}$$

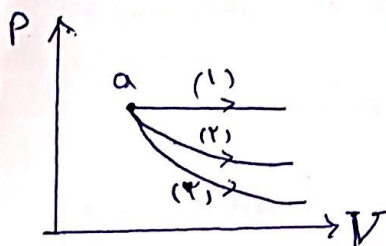
$$W_F + W_{F_k} = \frac{1}{\gamma} m V^r - \frac{1}{\gamma} m V_i^r$$

$$(F \times \Delta x \times \frac{1}{\gamma}) + F_k \times \Delta x \times (-1) = \frac{1}{\gamma} \times 1 \times (1.8)^r - 0$$

$$P_i V_i = P_r V_r \Rightarrow 1.0 \times 1.0 \times 1.0 = P_r \times 1.0 \times 1.0$$

$$P_r = \frac{1.0}{1.0} \times 1.0 \text{ Pa} \rightarrow 1.0 \text{ Pa}$$

$$P_r = 4.0 \text{ Pa}$$



$$W_{<0} - Q_{>0} - \Delta U$$

$$W_{<0} - Q_{>0} \leftarrow$$

$$W_{<0} - \Delta U_{<0} \leftarrow$$

$$A: P_A V_A = 1.0 \times 1.0 \times 1.0$$

$$B: P_B V_B = 1.0 \times 1.0 \times 4.0$$

$$C: P_C V_C = 1.0 \times 1.0 \times 7.0$$

$$\frac{U_A}{U_B} = \frac{T_A}{T_B} = \frac{P_A V_A}{P_B V_B} = \left(\frac{1}{4} \right)$$

$$\frac{U_B}{U_C} = \left(\frac{1}{7} \right)$$

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