

JEE Main 2020 Paper



11. In an adiabatic process, the density of a diatomic gas becomes 32 times its initial value. The final pressure of the gas is found to be n times the initial pressure. The value of n is:

(1) 32 (2) $\frac{1}{32}$ (3) 326 (4) 128

Sol. 4

$$PV^\gamma = \text{const.}$$

$$p(\rho^{-\gamma}) = \text{const.}$$

$$p_1(\rho_1^{-\gamma}) = p_2(\rho_2^{-\gamma}) \quad \gamma = \frac{7}{5} \text{ for diatomic}$$

$$p_1 \rho_1^{-7/5} = (n p_1) (32 \rho_1)^{-7/5}$$

$$\rho_1^{-7/5} = \frac{n}{(32)^{7/5}} (\rho_1^{-7/5})$$

$$n = (2^5)^{7/5} = 2^7 = 128$$

12. A galvanometer is used in laboratory for detecting the null point in electrical experiments. If, on passing a current of 6 mA it produces a deflection of 2° , its figure of merit is close to:

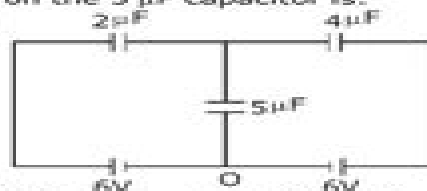
(1) 6×10^{-3} A/div. (2) 3×10^{-3} A/div. (3) 666° A/div. (4) 333° A/div.

Sol. 2

$$\text{figure of merit} = \frac{1}{\theta} \Rightarrow \text{A/div.}$$

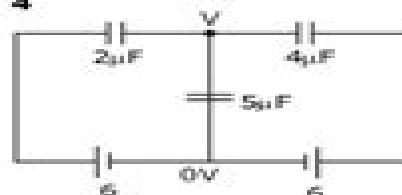
$$= \frac{6 \times 10^{-3}}{2} = 3 \times 10^{-3} \text{ A/div.}$$

13. In the circuit shown, charge on the $5 \mu\text{F}$ capacitor is:



(1) $5.45 \mu\text{C}$ (2) $18.00 \mu\text{C}$ (3) $10.90 \mu\text{C}$ (4) $16.36 \mu\text{C}$

Sol. 4



$$(V - 6) \times 2 + (V - 0) \times 5 + (V - 6) \times 4 = 0$$

$$2V - 12 + 5V + 4V - 24 = 0$$

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M Mark



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