

Chapter 15

Electrostatic Potential and Capacitance

1. Answer (3)

$$Q = 100e = -100 \times 1.6 \times 10^{-19} = -1.6 \times 10^{-17} \text{ C}$$

$$\Delta V = -14 \text{ V}$$

$$\therefore W = Q\Delta V = 14 \times 1.6 \times 10^{-17} = 2.24 \times 10^{-16} \text{ J}$$

2. Answer (1)

$W_s = -q(V_f - V_i)$ It depends on initial and final point only, because electrostatic field is a conservative field.

3. Answer (4)

$$U = \frac{q^2}{2C} = \frac{(q_0)^2}{2C} e^{-2t/RC} = U_0 e^{-2t/RC}$$

$$q = q_0 e^{-t/RC}$$

When charge becomes $\frac{1}{4}$ times, energy becomes

$$\frac{1}{16} \text{ times.}$$

So, $t_1 = \text{one half life}$, while $t_2 = 4 \text{ half lives}$

4. Answer (2)

5. Answer (2)

For this, charge must be same $Q = C_1 V_1 = C_2 V_2$

$$\Rightarrow 120C_1 = 200C_2$$

$$\Rightarrow 3C_1 = 5C_2$$

6. Answer (4)

$$V = \int \frac{k dq}{L-x}$$

$$V = \frac{kQ}{L} \int_0^L \frac{dL}{L-x} = \frac{kQ}{L} \ln 2$$

$$V = \frac{Q}{4\pi\epsilon_0 L} \ln 2$$

7. Answer (3)

$$dV = -E \cdot dx$$

$$\int_{V_0}^{V_f} dV = - \int_0^2 30x^2 dx$$

$$V_A - V_O = -[10x^3]_0^2 = -80 \text{ J}$$

8. Answer (1)

$$E = \frac{\sigma}{K\epsilon_0}$$

$$\sigma = K\epsilon_0 E$$

$$= 2.2 \times 8.85 \times 10^{-12} \times 3 \times 10^4 = 6 \times 10^{-7} \text{ C/m}^2$$

9. Answer (3, 4)

$$V_0 = k \frac{Q}{R} \quad \dots (1)$$

$$V_1 = \frac{kQ}{2R^2} (3R^2 - r^2)$$

$$V = \frac{3}{2} V_0 \Rightarrow R_1 = 0$$

$$\frac{5}{4} \frac{kQ}{R} = kQ \frac{(3R^2 - r^2)}{2R^2}$$

$$\Rightarrow R_2 = \frac{R}{\sqrt{2}}$$

$$\frac{3}{4} \frac{kQ}{R} = \frac{kQ}{R^2}$$

$$\Rightarrow R_3 = \frac{4R}{3}$$

$$\frac{1}{4} \frac{kQ}{R} = \frac{kQ}{R_4}$$

$$\Rightarrow R_4 = 4R \Rightarrow R_4 > 2R$$

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AN Whitehead



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nevertheless once students try to solve them they will find that the questions are really tough nuts to crack Teachers can also use the questions in the book in their classes Not only from an academic or an educational point of view the book is useful also to engineers working in such fields as electrical discharges and their applications high voltage equipment in DC and AC circuits as well as electrostatic devices This is because the book introduces various practical applications related to electrostatic fields The original ideas of the book are based on the following Japanese book written by one of author T Takuma Panorama of Electric Fields in Japanese IEE Japan 2003 This English version of the book has been thoroughly revised and improved with several new questions added

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