

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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Arshad Iqbal



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Biochemistry Question-Answer Mr. Rohit Manglik, 2024-07-30 A concise collection of frequently asked questions and answers in biochemistry useful for exam preparation and concept reinforcement

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to Nanoengineering Darren J Lipomi, Robert S Ramji, 2024-05-10 This book provides a foundation in the burgeoning field of nanoengineering That is the exploitation for the benefit of society of materials and physical effects that occur on the scale of 1 to 100 nanometers With an emphasis on the effects of size confinement and the forces which arise between molecules nanoparticles and surfaces the book includes chapters on light matter interactions especially of metallic and semiconducting nanocrystals organic nanostructures lithography and nanomanufacturing methods of spectroscopy and visualization and applications in energy environmental science and human health Written by Darren Lipomi PhD a Professor of Nanoengineering at UC San Diego along with Robert Ramji the book is written in an engaging jargon free style Its use of video supplements and cache of 150 solved problems meets students needs regardless of their background of prior courses yet it contains sufficient depth to satisfy the most curious beginners to the subject The approach follows the model of teaching from the top down That is to provide a framework of concepts into which the content of future courses on nanoengineering nanotechnology or nanoscience will fit The text also provides an inviting introduction to the field for students in chemistry physics biology and a broad range of engineering disciplines

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