

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)

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

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

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

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

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

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

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

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

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

Answers For Chapter 15 Electrostatic Conceptual

Marcel A. Müller



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web amygdalin is a plant substance found in raw nuts bitter almonds as well as apricot and cherry seeds plants like lima beans clover and sorghum also contain amygdalin some people call laetrile vitamin b17 although it isn't a vitamin why people with cancer use it laetrile has been used as an anti cancer agent since the 1800 s

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web nov 21 2019 writer bio there are two types of almonds sweet and bitter sweet almonds are frequently used in cooking or can be eaten as a snack bitter almonds are frequently used for food flavorings or in oils sweet almonds grow on trees in australia south africa the mediterranean and the united states

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web aug 21 2023 bitter almonds are a variety of regular sweet almonds bitter almonds contain traces of prussic acid also known as hydrocyanic acid in its raw state hydrocyanic acid is a solution of hydrogen cyanide and water the byproduct is an organic version of the well known poison cyanide

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web jun 13 2019 today many people have never even heard of poisonous almonds much less come across one in the wild though some folks still eat bitter almonds in small doses in tunisia for instance people

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web feb 28 2020 bitter almonds are the seeds of certain trees belonging to prunus dulcis namely those that grow in the middle east and asia these seeds are often classified as nuts but they aren't true nuts and are actually a form of a drupe where the seed is enclosed in an outer hull and a hard shell

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web bitter almond overview almonds are a familiar type of nut they can be sweet or bitter depending on the type of tree that produces uses effectiveness insufficient evidence to rate effectiveness for other conditions more evidence is needed to side effects do not use bitter almond

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web cyanide is sometimes described as having a bitter almond smell but does not always give off an odor and not everyone can detect this odor how people can be exposed to cyanide after a release of cyanide into the air people can be exposed through skin contact or eye contact or inhaling breathing in the cyanide gas

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web bitter almond *prunus amygdalus var amara* is a type of almond it contains a toxic chemical called amygdalin which is poisonous when consumed the amygdalin in bitter almond turns into

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web bitter almonds contain 42 times higher amounts of cyanide than the trace levels found in sweet almonds extract of bitter almond was once used medicinally but even in small doses effects are severe or lethal especially in children the cyanide must be removed before consumption

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web jul 3 2020 bitter almonds were the most common species grown until a few thousand years ago when a genetic mutation inhibited the almond tree's ability to make amygdalin the compound that gives bitter