

Name: \_\_\_\_\_

## Physics Chapter 17 Study Guide

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### Useful Information:

$$e = 1.6 \cdot 10^{-19} \text{ C} \quad k = 9 \cdot 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2} \quad k_e = 8.99 \cdot 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2} \quad PE_{\text{electric}} = q\Delta V$$

$$\Delta V = -Ed \quad \Delta V = \frac{\Delta U}{q} \quad C = \frac{Q}{V} \quad C = \frac{Q\epsilon_0}{d} \quad PE_{\text{electric}} = \frac{1}{2}CV^2 \quad I = \frac{\Delta Q}{\Delta t} \quad R = \frac{\Delta V}{I}$$

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### A. Basic Understanding:

• Chapter 17 Odd-Numbered Class Problems

• Chapter 17 Review Problems: 1, 6, 9, 14, 20, 27, 36, 39, 44, 47, 55, 57, 66, 73, 77

### Pushing to the Bottom:

• Chapter 17 Even Type Problems

• Chapter 17 Even-Numbered Class Problems

• Chapter 17 Review Problems: 3, 4, 10, 13, 17, 22, 23, 25, 34, 38, 39, 43, 46, 50, 52, 63, 64, 65, 67, 68, 74, 76

• Standardized Test Prep: 1, 12

### Digging Deeper:

• Chapter 17 Review Problems: 2, 5, 15, 24, 28, 32, 45, 75, 80

• Student's Inquiry

### Notes on Chapter 17 Equations:

$e = 1.6 \cdot 10^{-19} \text{ C}$  This is the fundamental unit of charge. The charge on an electron is  $-e$  and the charge on a proton is  $+e$ . The net charge on objects that have a charge which is not a whole-number multiple of this number.

$k = 9 \cdot 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2}$  This is Coulomb's Constant. It is a "fudge factor" necessary to make the next equation derive give better results in Newtons when the charges are in Coulombs and the distance between the charges is in meters.

$k_e = 8.99 \cdot 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2}$  This is the "precisely in a vacuum," a needlessly complicated name. Like Coulomb's Constant, it's a fudge factor to make the units line up correctly. Units can get pretty tricky and sensitive in Electricity and Magnetism.

$PE_{\text{electric}} = q\Delta V$  This is the equation for the Electric Potential Energy of a point charge (q) moving across charge at voltage,  $\Delta V$ .

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**R Pring**



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