## SOME PHYSICAL CONSTANTS

QUANTITY	SYMBOL	VALUE	
speed of light in a vacuum	С	$3.00 \mathrm{x} 10^8 \; \mathrm{m/s}$	
Coulomb's constant	$rac{1}{4\pi\epsilon_{_{f o}}}$	$9 \mathrm{x} 10^9 \ \mathrm{nt} \cdot \mathrm{m}^2 / \mathrm{C}^2$	
permittivity of free space	$\epsilon_{_{ m o}}$	8.85x10 <sup>-12</sup> F/m	
permeability of vacuum	$\mu_{\mathfrak{o}}$	4πx10 <sup>-7</sup> H/m	
elementary charge unit	e	1.6x10 <sup>-19</sup> C	
mass of electron	$\mathrm{m_{e}}$	$9.1 \mathrm{x} 10^{-31} \mathrm{kg}$	
mass of proton	m <sub>p</sub>	$1.673 \mathrm{x} 10^{-27} \mathrm{~kg}$	
mass of neutron	m <sub>n</sub>	$1.675 \mathrm{x} 10^{-27}~\mathrm{kg}$	
Universal Gravitational Constant	G	$6.67\mathrm{x}10^{\text{-}11}~\mathrm{m}^3/\mathrm{kg}\cdot\mathrm{s}^2$	
Planck's constant	h	$6.63 \mathrm{x} 10^{-34} \ \mathrm{J \cdot s}$	

Student's Name:		
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