

1st Semester Honors Physics Exam Study Guide

1) The following problems are representative of the type problems that will be on the 1st semester exam. Exam will cover Chapters 1 - 5.

2) Please solve/answer each of these - pay particular attention to the "type" solution required for each one.

3) You will not be given ANY additional material - any and all equations and/or constants that YOU think you will need must be placed on either a 3x5 or 5x8 index card. This card must be submitted to me during the exam review days and approved by me. The "approved/signed" cards may be used during the exam.

4) YOU MUST HAVE YOUR CARD, CALCULATOR and PENCILS WITH YOU WHEN THE BELL RINGS TO START THE PERIOD. YOU WILL NOT BE PERMITTED TO GO GET ANYTHING AND/OR BORROW ANYTHING FROM ANYONE!!!!

- _____ 1. Since 1983 the standard meter has been defined in terms of which of the following?
 - a. specific alloy bar housed at Sevres, France
 - b. wavelength of light emitted by krypton-86
 - c. distance from the Earth's equator to the North Pole
 - d. the distance light travels in a certain fraction of a second
- _____ 2. Since 1967 the standard definition for the second has been based on which of the following?
 - a. characteristic frequency of the cesium-133 atom
 - b. average solar day
 - c. sidereal day
 - d. Greenwich Civil Time
- _____ 3. In mechanics, physicists use three basic quantities to derive additional quantities. Mass is one of the three quantities. What are the other two?
 - a. length and force
 - b. power and force
 - c. length and time
 - d. force and time
- _____ 4. The prefixes which are abbreviated p, n, and G represent which of the following?
 - a. 10^{-3} , 10^{-6} , and 10^{15}
 - b. 10^{-9} , 10^6 , and 10^{10}
 - c. 10^{-12} , 10^{-9} , and 10^9
 - d. 10^{-12} , 10^{-6} , and 10^{12}
- _____ 5. The nuclei of atoms contain:
 - a. electrons only.
 - b. neutrons only.
 - c. protons and electrons.
 - d. protons and neutrons.
- _____ 6. When was the existence of the neutron confirmed?
 - a. in ancient times
 - b. in 1895
 - c. in 1932
 - d. in 1969

Honors Physics Study Guide Answers

Cynthia R. Hynd



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