

Physics test review guide R5 unit test.

Chapter 11.1-11.8.

Sample problems to consider before test. 4, 5, 7, 22, 30, 33, 37, 44, 53, 55,

Chapter 12.4, 12.5, 12.7, 12.8

Sample problems to consider before test. 28, 34, 49,

Also..

1. given the frequency of a tuning fork and the 'length' of an air column above which result in an audible tone (resonance), be able to a) identify which harmonic the sound is likely oscillating in and b) the speed of sound on that day. (and be able to draw a sketch of the wave-form as it exists in the system)
2. Given the height of an air column in a classic Coke bottle and the note it produces.. be able to determine the height of the air column to generate the next note in the 'major scale'. (Note: you'll be given the 'formula' for the major scale notes based on a starting frequency).
3. Given a system 'fixed at both ends' or.. 'fixed at one end'.. or 'open on both ends'.. be able to draw the first few 'standing wave forms' which could exist.. and based on that, be able to predict a higher level wavelength/frequency..

Chapter 16, sections 1-8.

Sample problems to consider before test. 8, 12, 24, 41,

Chapter 17.1, 17.2, 17.3

Sample problems to consider before test. 5, 7, 11