

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

## Unit Test – SPH3U Grade 11 Physics – Waves and Sound

There are 4 parts to this test. Answer all questions. Read each question carefully and answer exactly what the question asks. You will have the entire 35 minute class to finish the test if you need it. Once you are finished, raise your hand and I will come around and take your test and read quietly. If you are not sure of an answer move on to the next question and come back to that one later. (Total test of 64 marks).

### Part 1: Multiple Choice (20 marks)

Circle the letter corresponding to the most correct answer.

- Which best describes sound waves?
  - Transfer of energy from one place to another
  - Transfer of mass from one place to another
  - Positive displacement of particles
  - Movement in a direction perpendicular to the direction of the wave
- Which statement is false, as suggested by the universal wave equation,  $v = f\lambda$ ?
  - If the frequency is held constant, the speed increases as the wavelength increases.
  - Speed is the product of the frequency and the wavelength
  - If the wavelength is held constant, the speed increases as the frequency decreases.
  - If the speed is held constant, wavelength increases as the frequency decreases.
- Which of the following actions will increase the speed of sound in air?
  - Decreasing the air temperature
  - Increasing the frequency of the sound
  - Increasing the air temperature
  - Increasing the amplitude of the sound wave.
- A pipe open at both ends resonates at a fundamental frequency,  $f_{open}$ . When one end is covered and the pipe is again made to resonate, the fundamental frequency is  $f_{closed}$ . Which of the following expressions describes how these two resonant frequencies compare?
  - $f_{closed} = f_{open}$
  - $f_{closed} = \frac{2}{3} f_{open}$
  - $f_{closed} = 2 f_{open}$
  - $f_{closed} = \frac{3}{2} f_{open}$
- Which phrase best describes damping of a wave? *d*
  - Decreased velocity
  - Constructive interference
  - Decreased frequency
  - Decreased amplitude

# Exam Questions And Answers On Physics Pgrade 11

**Lingjun Ying**



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