



First semester 2017-2018  
PHYS-121  
Quiz (3)

Name:

Sec:

ID:

- 1) Because of the Doppler effect sounds coming from a moving source
- seem louder than if the source were not moving.
  - are of a higher frequency if the source is moving away from the observer.
  - have a lower frequency if the source is moving toward the observer.
  - have a higher frequency if the source is moving toward the observer.
- 2) The three lowest resonant frequencies of a system are 50 Hz, 150 Hz, and 250 Hz. The system could be
- a tube of air closed at both ends.
  - a tube of air open at one end.
  - a tube of air open at both ends.
  - a vibrating string with fixed ends.
- 3) An open-end resonance tube sounds out a fifth harmonic at 1600 Hz. The frequency of the second harmonic is
- 320 Hz
  - 533 Hz
  - 960 Hz
  - 640 Hz
- 4) What is the formula for density?
- Force divided by area
  - Pressure divided by force
  - Mass divided by volume
  - Volume divided by force
- 5) 1 Pascal is equivalent to:
- N/m
  - N.m
  - Nm<sup>2</sup>
  - N/m<sup>2</sup>

Question	1	2	3	4	5
Answer					