Kingdom of Saudi Arabia Ministry of Higher Education University of Hail Preparatory Year Deanship Basic Science Department Medical Physics



المملكة العربية السعودية وزارة التعليم العالي جامعة حائل عمادة السنة التحضيرية قسم العلوم الاسلسية الفيزياء الطبية

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

Name:

Sec:

ID:

1) Because of the Doppler effect sounds coming from a moving source

- a) seem louder than if the source were not moving.
- b) are of a higher frequency if the source is moving away from the observer.
- c) have a lower frequency if the source is moving toward the observer.
- d) have a higher frequency if the source is moving toward the observer.

The three lowest resonant frequencies of a system are 50 Hz, 150 Hz, and 250 Hz. The system could be

- a) a tube of air closed at both ends.
- b) a tube of air open at one end.
- c) a tube of air open at both ends.
- d) 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

- a) 320 Hz
- b) 533 Hz
- c) 960 Hz
- d) 640 Hz

4) What is the formula for density?

- a) Force divided by area
- b) Pressure divided by force
- c) Mass divided by volume
- d) Volume divided by force

5) 1 Pascal is equivalent to:

- a) N/m
- b) N.m
- c) Nm²
- d) N/m^2

Question	1	2	3	4	5
Answer					