Week 12 Assignment

The due date for submitting this assignment has passed.

Due on 2017-04-18, 23:59 IST.

Submitted assignment

1) From the following options choose a statement which outlines the requirement for weighting schemes in the measurements of loudness?

- Human ears hear same sound level at different frequency with different loudness level.
- Human ears hear same sound level at different frequency with same loudness level.
- Human ears hear different sound level at same frequency with different loudness level.
- None of the options are correct.

2) Integer rating used to define the quality of a building partition in attenuating airborne sounds is called ____.

- NRC (Noise reduction coefficient).
- STC (Sound Transmission Class).
- SAA (Sound Absorption Average).
- None of the above.

3) Which one of the octave band gives more finer information about frequency components?

- Octave band.
- 1/3 Octave band.
- 1/10 Octave band.
- 1/15 Octave band.

4) Reverberation Time (T_{\text{rev}}) is the time required for a steady state sound signal to decay by ______dB.
5) Dimension of an Anechoic Chamber/Room depends on:  
- Frequency range of signals to be used.  
- Size of the objects to be tested.  
- Type of absorptive element used in Anechoic chamber/Room.  
- All of the above.

6) Attenuation of sound waves due to thick walls made of high density material is called __________.  
- volume attenuation.  
- mass attenuation  
- sound attenuation.  
- wall attenuation.

7) Scalar representation of the amount of sound energy absorbed upon striking a particular surface is called ______.  
- NRC (Noise reduction coefficient).  
- STC (Sound Transmission Class).  
- SAA (Sound Absorption Average).  
- None of the above.

8) Sound energy is proportional to __________.  
- sound pressure  
- (sound pressure)^2  
- (sound pressure)^3  
- (sound pressure)^4