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Courses » Acoustic and Noise Control

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## Unit 2 - Week-1

### Course outline

How to access the portal

#### Week-1

- Lecture 1- Introduction 1
- Lecture 2- Introduction 2
- Lecture 3- Governing Equation 1
- Quiz : Week 1- Assignment 1
- Feedback for Week 1
- Solutions of Week 1 assignment 1

#### Week-2

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#### MATLAB

### Week 1-Assignment 1

The due date for submitting this assignment has passed. **Due on 2017-08-07, 23:59 IST.**

Submitted assignment (Submitted on 2017-07-24, 04:01 )

1) The ringing of a bell is due to 1 point

- vibro acoustics
- Flow acoustics
- Combustion acoustics

**Yes, the answer is correct.**

**Score: 1**

**Accepted Answers:**

*vibro acoustics*

2) Sound from flute is an example of 1 point

- Vibro acoustics
- Flow acoustics
- Combustion acoustics

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Flow acoustics*

3) What causes noise in an engine exhaust 1 point

- Vibro acoustics
- Flow acoustics
- Combustion acoustics

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Combustion acoustics*

4) What is the lowest frequency (Hz) that a normal human being can perceive 1 point

- 20
- 50
- 80
- 100

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*20*

- 5) Unit of loudness of sound is 1 point
- Candela
  - Decibel
  - Hertz
  - Lumen
- No, the answer is incorrect.**  
**Score: 0**
- Accepted Answers:**  
*Decibel*
- 6) At STP, what is the approximate speed of sound in air in m/s 1 point
- 360
  - 340
  - 240
  - 260
- No, the answer is incorrect.**  
**Score: 0**
- Accepted Answers:**  
*340*
- 7) The mean component of the density 1 point
- Changes in time alone
  - Changes in space alone
  - Changes with time but remains constant in space
  - Remains constant in space and time
- No, the answer is incorrect.**  
**Score: 0**
- Accepted Answers:**  
*Remains constant in space and time*
- 8) The acoustic wave transmission follows 1 point
- Adiabatic process
  - Isothermal process
  - Isobaric process
  - Isochoric Process
- Yes, the answer is correct.**  
**Score: 1**
- Accepted Answers:**  
*Adiabatic process*
- 9) During the propagation of sound which of the following statement is correct 1 point
- Only pressure of the fluid medium varies
  - Velocity of the particles of the medium remains constant
  - Pressure , density, velocity fluctuates in the medium
  - Both velocity of the particles and density of the medium remain constant.
- No, the answer is incorrect.**  
**Score: 0**
- Accepted Answers:**  
*Pressure , density, velocity fluctuates in the medium*
- 10) Assumptions made in the derivation of wave equation 1 point
- The fluid is homogenous
  - Fluid viscosities are neglected
  - The bulk fluid is stationary

All of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of the above*

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