Assignment 1

The due date for submitting this assignment is 11th September. Be sure to submit your work by the due date.

1. The added suspense behind the actor’s role and huge success to the actor’s career was seen in the
   - Early Lease period
   - Human Period
   - Modern Period
   Both the periods
   [1 point]
   
   Answer: Both the periods

2. Large scale of the cultures particularly, high cultural value
   - Allowed the sound to get lost within a short time and silence prevailed
   - Allowed sound concentration to come of the church floor
   - Allowed sound concentration at the center of the church
   - Allowed noise to be reduced and stay for a long time
   [1 point]
   
   Answer: Allowed the sound to get lost within a short time and silence prevailed

3. Application of the concept of trapping sound using inverted pancakes that were mentioned in the book 'De Acoustics' was observed in
   - Name of the National Carri Name, Paris
   - Name of the National Cathedral, Paris
   - Name of the National Carri, Florence
   - Name of the National Carri, London
   [1 point]
   
   Answer: Name of the National Carri, Florence

4. In which part of the human ear, mechanical electric conversion of sound occurs?
   - Ear drum
   - Outer ear canal
   - Cochlea
   - Auditory nerve
   [1 point]
   
   Answer: Cochlea

5. Which of the following frequency is recognized as one of the standard one third octave frequency?
   - 300 Hz
   - 600 Hz
   - 1200 Hz
   - 2400 Hz
   [1 point]
   
   Answer: 1200 Hz

6. If the governing equation of a sound wave is expressed by
   \[ y = P \times \sin \left( \frac{2\pi}{\lambda} x \right) \]
   Then
   - P & G = sound amplitude and Wavelength respectively
   - P & G = sound amplitude and Velocity respectively
   - P & G = sound frequency and Wavelength respectively
   - P & G = sound frequency and Velocity respectively
   [2 points]
   
   Answer: P & G = sound amplitude and Wavelength respectively

7. A sound source of sound having an output of 0.1 watt. The Sound Intensity Level at a distance 10 meters from the source will be ________ dB.
   - 10 dB
   - 20 dB
   - 30 dB
   - 40 dB
   [0 points]
   
   Answer: 40 dB

8. The sound pressure corresponding to 1 PA, 1 dB is
   \[ P = \frac{S}{2} \times 10^{\frac{S}{20}} \]
   [2 points]
   
   Answer: Not the winner in this round.

9. A sound wave is represented by the figure below. If the velocity of the sound wave is 330 m/s, then the frequency of the sound wave is
   [2 points]
   
   Answer: Not the winner in this round.

10. Which of the following statements is correct
    - c) An object is kept in an area and an increase of 10 cm in cloudburst will produce an increase in the same by 10 cm
    - a) An object is kept in an area and an increase of 10 cm in cloudburst will produce an increase in the same by 10 cm
    - b) An object is kept in an area and an increase of 0 cm in cloudburst will produce an increase in the same by 10 cm
    - d) An object is kept in an area and an increase of 0 cm in cloudburst will produce an increase in the same by 10 cm
    [2 points]
    
    Answer: c) An object is kept in an area and an increase of 10 cm in cloudburst will produce an increase in the same by 10 cm

11. An object is kept in an area and an increase of 15 cm in cloudburst will produce an increase in the same by 15 cm

   Answer: Not the winner in this round.

12. An object is kept in an area and an increase of 15 cm in cloudburst will produce an increase in the same by 15 cm

   Answer: Not the winner in this round.

13. An object is kept in an area and an increase of 15 cm in cloudburst will produce an increase in the same by 15 cm

   Answer: Not the winner in this round.