

General Science Physics Question paper – Set 2

1. The Unit of sound is

- 1.Intensity
- 2.Hertz
- 3.Decibel
- 4.Frequency
- 5.None of these

Answer & Explanation

Answer – **3.Decibel**

Explanation :

Decibel(dB), unit for expressing the ratio between two amounts of electric or acoustic power or for measuring the relative loudness of sounds.

1 dB = 20 times the common logarithm of the ratio.

2. The sound waves or audible waves are lies in the range of

- 1.less than 20Hz
- 2.20Hz to 20000Hz
- 3.Greater than 20000Hz
- 4.20000Hz
- 5.None of these

Answer & Explanation

Answer – **2.20Hz to 20000Hz**

Explanation :

Sound waves or audible waves – 20Hz to 20000Hz

These waves sensitive to human ear

3. Speed of sound is in solids and in gases

- 1.Minimum, Maximum
- 2.Minimum, Minimum
- 3.Maximum, Maximum

4. Maximum, Minimum

5. None of these

Answer & Explanation

Answer – **4. Maximum, Minimum**

Explanation : Speed of sound is maximum in solids and minimum in gases

4. **The infrasonic waves have the frequencies**

1. less than 20Hz

2. 20Hz to 20000Hz

3. Greater than 20000Hz

4. 20000Hz

5. None of these

Answer & Explanation

Answer – **1. less than 20Hz**

Explanation :

Infrasonic waves – less than 20Hz

These waves are produced by earth quakes

5. **The wavelength range of electromagnetic wave is**

.....

1. 10^{-3} to 10^4 m

2. 10^{-1} to 10^2 m

3. 10^{-2} to 10^3 m

4. 10^{-4} to 10^4 m

5. None of these

Answer & Explanation

Answer – **4. 10^{-4} to 10^4 m**

Explanation :

Ex of electromagnetic wave – Alpha rays, Gamma rays

6. **Frequency is defined as**

1. The maximum time period

2. Maximum displacement from mean position
3. Time taken for 1 oscillation
4. The no of oscillations in 1 seconds
5. None of these

Answer & Explanation

Answer – **4. The no of oscillations in 1 seconds**

Explanation :

Frequency is defined as the no of oscillations in 1 seconds

Frequency Unit – Hertz

$$F = 1/T$$

7. **The echo is not heard at the due to absence of atmosphere**

1. Moon
2. Earth
3. Mountains
4. Ocean
5. None of these

Answer & Explanation

Answer – **1. Moon**

Explanation :

The sound waves received after being reflected from some other place is called echo.

The minimum distance between the observer and reflector should be 17m.

8. **..... waves are always characterized by particle motion being perpendicular to wave motion.**

1. Longitudinal
2. Transverse
3. Mechanical
4. Electromagnetic waves
5. None of these

Answer & Explanation

Answer – **2. Transverse**

Explanation :

Transverse waves are always characterized by particle motion being perpendicular to wave motion.

Ex – Waves on string under tension or under surface water

9. **The distance between consecutive trough or compression is known as**

1. Amplitude
2. Frequency
3. Wavelength
4. Time period
5. None of these

Answer & Explanation

Answer – **3. Wavelength**

Explanation :

Distance between consecutive trough or compression is known as Wavelength

Wavelength(λ) Unit – meter

10. **The longitudinal waves having frequency greater than 20000Hz are called**

1. Electromagnetic waves
2. Sound Waves
3. Audible waves
4. Ultrasonic waves
5. None of these

Answer & Explanation

Answer – **4. Ultrasonic waves**

Explanation :

Ultrasonic waves – greater than 20000Hz

Human ears can't detect these waves

