

PHYSICS

Time Allowed: 15 Minutes

Paper: (Objective Type)
Maximum Marks: 12

Note : You have four choices for each objective type question as A,B,C and D. The choice which you think is correct fill that circle in front of that question number. Use marker or pen in fills this circle. Cutting or filling two or more circles will result in zero mark in that question.

Q.1	QUESTIONS	(A)	(B)	(C)	(D)
1.	The unit of intensity of sound.	Wm^{-1}	Wm	Wm^{-2}	Wm^{-3}
2.	The sound level of rustle of leaves is.	10 dB	20 dB	25 dB	30 dB
3.	The characteristic of sound by which two sounds of some loudness and pitch are distinguished, is called	Noise	Music	Quality of sound	Pitch of Sound
4.	Which is example of longitudinal wave?	Sound wave	Light wave	Radius wave	Water wave
5.	The speed of sound in air at 0 °C is	$331ms^{-1}$	$332 ms^{-1}$	$333 ms^{-1}$	$336 ms^{-1}$
6.	The frequency of silent whistle is.	20,000 Hz-25000Hz	2000 Hz-25000Hz	200 KHz-2000Hz	25000KHz
7.	Which form of energy is sound?	Electrical	Mechanical	Thermal	Chemical
8.	The loudness of a sound is most closely related to its.	Frequency	Period	Wavelength	Amplitude
9.	The speed of sound in air at 21 °C is.	$336 ms^{-1}$	$343 ms^{-1}$	$430 ms^{-1}$	$470 ms^{-1}$
10.	Frequency of tuning fork depends upon its of ____ prongs.	Weight	Speed	Mass	Distance
11.	Old people cannot hear sound above than Hz	1000	15000	20000	10000
12.	The speed of sound in iron at 25 °C is ms^{-1}	5950	5900	6950	6940

A B C D

A B C D

A B C D

A B C D

A B C D

1	(A) (B) (C) (D)	4	(A) (B) (C) (D)	7	(A) (B) (C) (D)	10	(A) (B) (C) (D)	13	(A) (B) (C) (D)
2	(A) (B) (C) (D)	5	(A) (B) (C) (D)	8	(A) (B) (C) (D)	11	(A) (B) (C) (D)	14	(A) (B) (C) (D)
3	(A) (B) (C) (D)	6	(A) (B) (C) (D)	9	(A) (B) (C) (D)	12	(A) (B) (C) (D)	15	(A) (B) (C) (D)

نوٹ: معروضی سوال نامے کو تو جیسے پڑھیں اور ہر MCQ کی درست آپشن A, B, C, D کو بچین کی سی ایسی یا مار کر سے اس طرح پُر کریں کہ سی ایسی دائرے سے باہر نہ نکلے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کات کر پُر کرنے کی صورت میں مذکورہ جواب غلط تصور ہوگا۔



علم کی دُنیا

TEST NO. 2

CH NO. 11

PHYSICS

Time Allowed: 1:45 Hours

(10th CLASS)

Paper: (Essay Type)

Maximum Marks: 48

(PART – I)

2. Write short answers to any Five (5) questions:

10

- (i) What is sound wave?
- (ii) What is tuning fork?
- (iii) Define Longitudinal Waves.
- (iv) Define Loudness.
- (v) Define Amplitude.
- (vi) Define pitch and quality.
- (vii) Is speed of sound more in solids or liquids? And why?
- (viii) We can recognize person speaking with the same loudness from their voice. How is this possible?

3. Write short answers to any Five (5) questions:

10

- (i) What is Intensity of sound?
- (ii) What is bel and Zero bel.
- (iii) What is Intensity level?
- (iv) How can depth of sea be measured by ultrasonic?
- (v) What is decibel scale?
- (vi) Is there any difference between echo and reflection of sound? Explain.
- (vii) What is speed of sound?
- (viii) What is difference between frequency and pitch?

4. Write short answers to any Five (5) questions:

10

- (i) Why Ultrasound is useful in medical field.
- (ii) On what factors does the loudness of sound depend?
- (iii) What is Musical sound?
- (iv) What is noise?
- (v) Define Acoustic protection.
- (vi) Define audible frequency range.
- (vii) What is the audible frequency range for human ear?
- (viii) Will two separate 50 db sound together constitute a 100 dB sound? Explain.

(PART- II)

Note: Attempt any TWO questions.

- 5- (a) Explain reflection of sound. **4**
(b) Calculate the wavelength of sound produced by tuning fork of frequency 512 Hz. Whereas the speed of sound in air is 140 ms^{-1} **5**
- 6- (a) What do you understand by the longitudinal wave? Describe the longitudinal nature of sound waves. **4**
(b) A normal conversation involves sound intensities of about $3.0 \times 10^{-6} \text{ Wm}^{-2}$. What is the decibel level for this intensity? **5**
- 7- (a) Explain the characteristic of sound. **4**
(b) A sound wave has a frequency of 2 kHz and wavelength 35 Cm. How long will it take to travel 1.5 km? **5**



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