

Sample Paper - 3

ICSE Board Class VII Physics Sample Paper - 3

Time: 2 hrs Total Marks: 75

General Instructions:

- 1. All questions are compulsory.
- 2. Questions 1 to 15 carry one mark each.
- 3. Questions in 2A and 2B carry one mark each.
- 4. Questions in 3A and 3B carry one mark each.
- 5. Question in 4A and 4B carries one mark each.
- 6. Questions in 5A carry one mark each and 5B carry five marks.
- 7. Questions in 6 carry two marks each.
- 8. Question 7A and 7B carry ten marks in total.

Question 1

Choose the correct answer out of the four available choices given under each question. [15]

- 1. What is the weight of a body of mass of 25 kg? ($g = 9.8 \text{ m/s}^2$)
 - (a) 25N
 - (b) 25 kg
 - (c) 245 N
 - (d) 245 kg
- 2. Sea water is denser than fresh water due to
 - (a) Evaporation
 - (b) Mixing of sand
 - (c) Mixing of salts
 - (d) Stagnation
- **3.** How much distance does a car cover when it moves 20 km to the east and then 60 km to the west?
 - (a) 60 km
 - (b) 80 km
 - (c) 20 km
 - (d) 40 km
- **4.** Children below 5 years can hear sounds having a frequency up to
 - (a) 20 KHz
 - (b) 30 KHz
 - (c) 25 KHz
 - (d) 40 KHz

TOPPER LEARNING Get More Marks

ICSE VII | PHYSICS

Sample Paper - 3

- **5.** Glass allows light to pass through it because it is
 - (a) transparent
 - (b) opaque
 - (c) luminous
 - (d) non-luminous
- **6.** When heat is absorbed, the temperature:
 - (a) Increases
 - (b) Decreases
 - (c) Remains same
 - (d) Becomes zero
- 7. If an object is at the focus of a concave mirror, then the size of the image formed is
 - (a) Diminished
 - (b) Highly diminished
 - (c) Highly enlarged
 - (d) Enlarged
- 8. The degree of hotness or coldness of a body or environment is called
 - (a) Pressure
 - (b) Temperature
 - (c) Melting point
 - (d) Boiling point
- **9.** What is the angle between the incident and reflected rays when a ray of light is incident normally on a plane mirror?
 - (a) 90°
 - (b) 45°
 - (c) 180°
 - (d) 0°
- **10.** At what time during the day, will the shadow of a stick be shortest?
 - (a) Dawn
 - (b) Mid-day
 - (c) Afternoon
 - (d) Dusk



Sample Paper - 3

- **11.**If the radius of curvature of a spherical mirror is 34.52 cm, then the focal length of that spherical mirror is
 - (a) 17.26 cm
 - (b) -34.52 cm
 - (c) 69.04 cm
 - (d) 34.52 cm
- **12.** A metal released in the electrolysis of a salt gets deposited on the
 - (a) Anode
 - (b) Cathode
 - (c) Half on the anode and half on the cathode
 - (d) Sides of the container
- 13. Sound can travel through
 - (a) gases only
 - (b) solids only
 - (c) liquids only
 - (d) solids, liquids and gases
- **14.** Which of the following is used to make a periscope?
 - (a) Concave mirror
 - (b) Convex mirror
 - (c) Plane mirror
 - (d) Lens
- 15. Time period of a simple pendulum is given by the formula
 - (a) $T = \sqrt{\frac{g}{l}}$
 - (b) $T = 2\pi \sqrt{\frac{g}{l}}$
 - (c) $T = \sqrt{\frac{l}{g}}$
 - (d) $T = 2\pi \sqrt{\frac{l}{g}}$

ICSE VII | PHYSICS

Sample Paper - 3

$\boldsymbol{\cap}$		_	~+				n
Q	u	e:	51	.L(JI	l.	Z

Quesi	1011 2
(A) A	nswer the following questions in one word or one sentence. [5
1.	Name two household electric appliances which cool the surroundings.
2.	Write any one use of a pinhole camera.
3.	What is the speed of sound when it travels through water?
4.	State the relationship between focal length and radius of curvature of a spherica mirror.
5.	Define kilogram-force?
(B) F:	ill up the blanks and rewrite the sentences: [5]
1.	To test the purity of a sample of milk, we use a device called
2.	Light takes about to travel from the Sun to the Earth.
3.	Pitch increases with an increase in the of a vibrating body.
4.	Non-uniform motion is also called motion.
5.	Dry cell was invented by

Question 3

(A) Match the item in column I with the appropriate item in column II.

[5]

Column A	Column B
Velocity	Irregular vibration
Noise	Solidification
Gas condenses into solid	Vector
Opaque medium	10 ⁵ dyne
1 N	Wood

(B) Define the following:

[5]

- 1. Uniform Motion
- 2. Amplitude
- 3. Freezing
- 4. Virtual Image
- 5. Electrolysis

www.topperlearning.com



ICSE VII | PHYSICS

Sample Paper - 3

Question 4

(A) Identify and classify the following types of motions as rotatory, non-periodic, vibratory, rolling motion or uniform motion: [5]

A spinning wheel	
Breathing	
A train is moving in straight track	
Movement of a drill	
Motion of tides in the sea	

(B) Give one word for the following

[5]

- 1. The motion in which an object does not cover equal distances in equal intervals of time.
- 2. The sound produced when two distinct sounds are heard due to the reflection of sound from a rigid smooth distance surface.
- 3. S.I. unit of temperature.
- 4. The outer rim of the Sun.
- 5. Material which does not allow electric current to flow through a circuit.

Question 5

(A) State whether the following statements are True or False

[5]

- 1. Battery is a device which produces an electric current by means of a chemical reaction.
- 2. A cork floats in water because its density is greater than that of water.
- 3. Conduction is possible in vacuum.
- 4. Any polished or shining surface acts as a mirror.
- 5. For a moving object, displacement can be zero, but distance can never be zero.

(B)

1. Define rules to draw a ray diagram.

[3]

2. List three effects of rectilinear propagation of light.

[2]

Question 6

Answer the following questions in short:

- 1. The distance between two stations is 560 km. A train takes 480 minutes to cover this distance. Calculate the speed of the train. [2]
- 2. Why do we use wooden handles in frying pans

[2]

- 3. Draw a diagram to show the formation of image of a point object in a plane mirror. [2]
- 4. We should not be barefooted while repairing or replacing any electrical components. Give reasons. [2]

5. When does a lunar eclipse take place?

[2]



Sample Paper - 3

Ouesilon /	Ou	iestion	7
------------	----	---------	---

(A)		
1 A 1	· A	
	4	. 1
141	$\boldsymbol{\Gamma}$	u

1. Describe the working of a beam balance. [4]

2. How can you identify a plane mirror, a concave mirror and a convex mirror without touching them? [3]

(B)

1. Difference between a shadow and an image of any object. [3]

www.topperlearning.com 6