

**ICSE Board**  
**Class VII**  
**Physics**  
**Sample Paper – 1**

**Time: 2 hrs**

**Total Marks: 75**

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**General Instructions:**


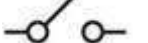
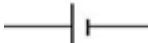

1. All questions are **compulsory**.
2. Questions 1 to 15 carry one mark each.
3. Questions in 2A and 2B carry one markeach.
4. Questions in 3A and 3B carry one markeach.
5. Question in 4A and 4B carries one mark each.
6. Questions in 5A carry one mark each and 5B carry five marks.
7. Questions in 6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

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**Question 1**

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

1. Materials which allow current to pass through them are called
  - (a) Insulators
  - (b) Conductors
  - (c) Sockets
  - (d) Fuse
2. A body is said to be in uniform motion when it travels an
  - (a) unequal distance in an equal interval of time
  - (b) unequal distance in an unequal interval of time
  - (c) equal distance in an unequal interval of time
  - (d) equal distance in an equal interval of time
3. What colour shadow will you see for a red coloured flower?
  - (a) Blue
  - (b) Black
  - (c) White
  - (d) Red
4. The S.I. unit of mass is
  - (a) Quintal
  - (b) Newton
  - (c) Kilogram
  - (d) Metre

5. Heat from the Sun reaches to us due to
  - (a) Radiation
  - (b) Convection
  - (c) Conduction
  - (d) None of the above
  
6. Audible range of sound for humans is
  - (a) 20 Hz to 2000 Hz
  - (b) 20 Hz to 20,000 Hz
  - (c) 10 Hz to 20,000 Hz
  - (d) 20 Hz to 10,000 Hz
  
7. The nature of the image formed by a convex mirror is always
  - (a) Real and inverted
  - (b) Real and erect
  - (c) Virtual and erect
  - (d) Virtual and inverted
  
8. Relative density of a substance is expressed by comparing the density of that substance with the density of
  - (a) Water
  - (b) Iron
  - (c) Mercury
  - (d) Air
  
9. The loudness of sound is normal between
  - (a) 120 dB - 130 dB
  - (b) 90 dB - 105 dB
  - (c) 10 dB - 25 dB
  - (d) 50 dB - 60 dB
  
10. Which of the following is the symbol for a closed switch?
  - (a) 
  - (b) 
  - (c) 
  - (d) 

11. The mirror used in the construction of shaving glass is

- (a) Convex
- (b) Concave
- (c) Plano-convex
- (d) Plano-concave

12. Which of the following is a transparent object?

- (a) Paper
- (b) Wood
- (c) Water
- (d) Stone

13. Electric current is the flow of

- (a) Neutrons
- (b) Electrons
- (c) Protons
- (d) None of these

14. For what purpose is a beam balance used?

- (a) To measure mass
- (b) To measure height
- (c) To measure weight
- (d) To measure length

15. The unit of speed is

- (a) metre/second<sup>2</sup>
- (b) second/metre
- (c) meter second
- (d) meter/second

## Question 2

(A) Answer the following questions in one word or one sentence.

[5]

1. What is meant by rectilinear motion?
2. State the relationship between focal length and radius of curvature of aspherical mirror.
3. Define amplitude.
4. Give the relationship between temperature in Celsius scale and Fahrenheit scale.
5. What is an electric fuse?

**(B)** Fill up the blanks and rewrite the sentences: [5]

1. The transfer of heat by the process of conduction takes place only in \_\_\_\_\_.
2. The weight of an object on the moon is about \_\_\_\_\_ of that on the Earth.
3. When a short-circuit takes place, the fuse wire melts and breaks the \_\_\_\_\_.
4. Sound waves cannot travel in \_\_\_\_\_.
5. A ray of light which bounces back from the surface of an object is called a \_\_\_\_\_ of light.

### Question 3

**(A)** Match the item in column I with the appropriate item in column II. [5]

Column A	Column B
Vocal cord	Mass
Primary cell	Bad conductor
Quantity of matter	Heat
Plastic	Non-rechargeable
Joule	Human voice

**(B)** Define the following: [5]

1. Electric cell
2. Density
3. Evaporation
4. Opaque objects
5. Frequency

#### Question 4

- (A) Identify and classify the following types of motions as circular, periodic, vibratory or random motion: [5]

The motion of the Earth around the Sun	
The motion of a plucked string of a guitar	
Motion of a flying bird	
Giant wheel	
Heart beat	

- (B) Give one word for the following [5]
1. Devices which produce electric energy from mechanical energy.
  2. Measurement of hotness or coldness of a body.
  3. Unpleasant and unwanted sound.
  4. Rate of change of velocity.
  5. Shadow region of total darkness in front of an opaque objects where no light enters.

#### Question 5

- (A) State whether the following statements are True or False [5]
1. A spring balance is used to measure the weight of a body.
  2. The transfer of heat by radiation is through a definite medium.
  3. The unit of speed is metre/second<sup>2</sup>.
  4. Moon has no light of its own.
  5. The images which cannot be captured on a screen are called real images.

- (B)
1. Draw ray diagrams to show the image formation by a concave mirror, when it is placed (i) beyond C (ii) at C [3]
  2. Give two measures to reduce noise pollution. [2]

#### Question 6

Answer the following questions in short:

1. How do heat and temperature differ from each other? [2]
2. On what factors does the time period of a simple pendulum depend? [2]
3. State the laws of reflection. [2]
4. What do you mean by electroplating? [2]
5. Sound cannot reach us from space. Give reasons. [2]

**Question 7****(A)**

1. Give the characteristics of the image formed by a plane mirror. [4]
2. Explain the formation of sea breeze. [3]

**(B)**

1. Distinguish between: [3]
  - i. Loudness and pitch
  - ii. High pitch sound and low pitch sound