



# SILVER GROVE SCHOOL

## ANNUAL EXAMINATION (2025-26)

## Set A

## CLASS- VII

## SUBJECT:PHYSICS

Time: 2 Hrs

M.M.:50

Name: \_\_\_\_\_

Roll No.:

## **Instruction:-**

1. The answer to the questions must be written on the paper provided separately.
2. You will not be allowed to write in the first 15 minutes.
3. This time is to be spent in reading the question paper.
4. Attempt all questions from section A , section A consists of 15 MCQ type questions.
5. Section B is also compulsory but attempt any 2 from Question 7
6. Marks for the question or parts are given in brackets.

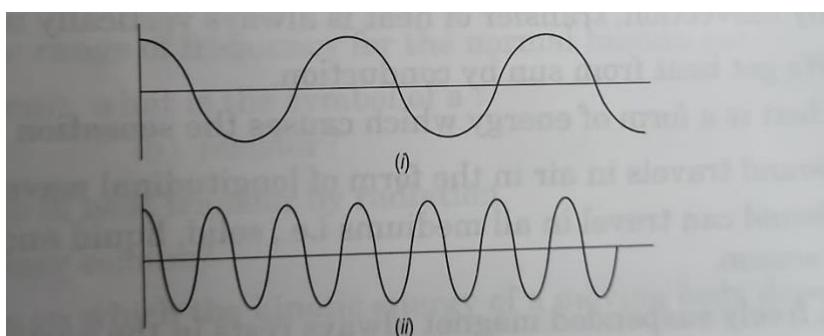
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## Section A

### Question 1 Choose the correct option from the following

[15]

- i) Heat in a liquid is transferred by ?
  - a) Convection
  - b) conduction
  - c) Radiation
  - d) none of these
- ii) Sound travels in the form of ?
  - a) Compression
  - b) longitudinal wave
  - c) transverse wave
  - d) rarefaction
- iii) We cannot hear sound of frequency?
  - a) 200 Hz.
  - b) 2,000 Hz.
  - c) 20,000 Hz
  - d) 2,00,000 Hz
- iv) In torch , the source of electricity is
  - a) Switch.
  - b) mains
  - c) bulb
  - d) cell
- v) Two waveforms are shown below.



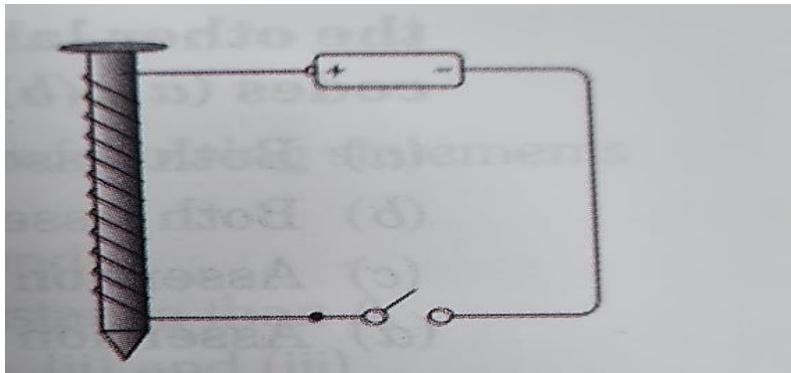
## What can be calculated from them?

**a) Closer the waves, greater will be the amplitude**

- b) Closer the waves, greater will be the frequency.
- c) Farther the waves, greater will be the amplitude
- d) Farther the waves, greater will be the frequency.

vi) A student performs an experiment where a wire is wrapped around a nail as shown in the given figure. As she completes the circuit, she notices that a nearby nail gets attracted to nail wrapped in the wire. What causes the nails to attract each other?

a) Metal objects always attract each other



b) Gravitational force causes them to attract

c) Difference in the size of the nails causes the attraction

d) Magnetic effect due to the flow of electricity causes the attraction.

vii) The relation between current (I) time (t) and charge (Q) is

a)  $Q = I/t$ .      b)  $I = Q/t$ .      c)  $Q = I \times t$ .      d)  $t = I/Q$

viii) Which of the following compounds is used as an electrolyte in a dry cell?

a) Ammonium chloride

b) Manganese dioxide

c) Sulphuric acid

d) Calcium oxide

ix) We can distinguish a shrill from a flat sound by its

a) Loudness.      b) Amplitude      c) Frequency      d) Pitch

x) Which of the following is a good reflector of sound ?

a) Cloth      b) Cork.      c) Metal.      d) Paper

**Assertion: Reason**

- a) Both assertion and reason are true and reason is the correct explanation of assertion
- b) Both assertion and reason are true but reason is not the correct explanation of the assertion
- c) Assertion is true but reason is false
- d) Assertion is false but reason is true.

xi) Assertion :- If an object oscillates or vibrates 380 times in 1 second , then its frequency is said to be 380 hertz.

Reason :- The number of vibrations or oscillations per minute is called frequency.

xii) Assertion:- In a series circuit ,all appliances work independently.

Reason:- A battery is a group of cells connected in series.

xiii) Assertion:- electricity flows only in the circuit when closed or complete  
Reason:- for a circuit to be complete, every part of it must be made up of conductors

xiv. The audible range of sound for a human being is:

(a) 0-10 Hz (b) 10-15 Hz (c) 20-20,000 Hz (d) Above 40,000 Hz

xv. Sound waves in air are:

(a) Transverse (b) Longitudinal (c) Electromagnetic (d) Stationary

Question 2 . Match the following.

[5]

1) Guitar	A) Hertz
2) Frequency.	B) string instruments
3) Heat.	C) Rho
4) Density.	D) second
5) Time period	E) joule

Question 3. Fill in the blanks.

[5]

- 1) SI unit of electric current is\_\_\_\_\_.
- 2) Rubber is a \_\_\_\_\_ conductor of electricity.
- 3) An electric bell is an application of the phenomenon of\_\_\_\_\_.

4.. Sound is produced due to \_\_\_\_\_.

5. lk. Reciprocal of time period is \_\_\_\_\_.

Question 4. Short answer type questions (Attempt any 4)

[8]

1. Two differences between loudness and pitch.
2. Two advantages of parallel circuit.
3. what is a solar cell?
4. Describe the simple electric circuit in series.
5. Name the main types of musical instruments
6. Name the factors on which loudness of a sound depends.

**Question 5. Find the odd one out****[2]**

- 1.Electromagnet ,Bar magnet , horseshoe magnet , Dry Cell.
- 2.Guitar ,Drum, flute, Microphone.
- 3.Echo, Vibration, Reflection , rarefaction.
- 4.Conduction ,Convection ,Radiation, Evaporation.

**Section B****Question 6. Long answer type questions****[****2.5x2=5]**

1. what is wave motion is there a permanent motion of medium particles in a wave motion
2. give an activity to show that vibrations produce sound.

**(7)give reasons for the following (1x5=5)**

1. unlike on the earth surface we cannot talk with our friends on the Moon surface why?
2. sound from the space cannot reaches?
3. Repulsion is show test of magnetism
- 4.Bulbs do not glow brightly in series circuit
5. Only parallel circuits are employed in our houses.