

Instructions: Read the question paper carefully. Write neatly and legibly. Do not over write. Read the answers before submitting the answer sheet.

Section - A (20 marks)
(Attempt all the questions)

I) State whether these statements is true or false- [4]

1. A thick glass tumbler cracks when hot water is poured into it.
2. Mud houses are hot in summer and cold in winter.
3. The bottom part of cooking utensils is polished.
4. Compression are dense regions of air particles.
5. Speed of sound is maximum in gases.
6. Audible frequency range of human ear is 20Hz- 20,000Hz.
7. Current is the flow of charge carriers.
8. Secondary cell can be used again.

II) Match the column- [4]

A	B
1. Electric circuit	a) Cannot be reuse
2. Electromagnet	b) Electric bell
3. Frequency	c) Current carrying coil
4. Gong	d) Number of vibrations in 1 second
5. Primary cell	e) Path to the flow of current
6. Longitudinal wave	f) loudness
7. Amplitude	g) Convection
8. Ventilator	h) Sound wave

III) Choose the correct option:- [4]

1. Heat causes :
- a) Change in temperature
 - b) Change in state
 - c) Change in dimension
 - d) all of these

2. The only liquid in which conduction is possible :

- a) Alcohol
- b) Water
- c) ~~Mercury~~
- d) Iodine

3. The ~~fasted~~ method of heat transfer from a hot body to:

- a) Conduction
- b) ~~Radiation~~
- c) Convection
- d) none of these

4. Sound requires:

- a) ~~Material medium~~
- b) Sound of vibration
- c) both of these
- d) none of these

5. Direction of propagation of wave means :

- a) Flow of wave
- b) Direction of vibration
- c) ~~direction in which energy of wave is moving~~
- d) direction of electric field

6. Strength of magnetic field of an electromagnet depends upon:

- a) Strength of electric current
- b) Number of turns of wire
- c) material of the wire
- d) ~~All of these~~

7. Cell is an arrangement in which conversion of:

- a) ~~Chemical energy to electrical energy~~
- b) electrical energy to Chemical energy
- c) both of these
- d) none of these

8. _____ is the surest test of magnetism.

- a) Attraction
- b) ~~Repulsion~~
- c) electricity
- d) none of these

IV) Answer in one word-

1. Distance from the mean position to the top of crest.
2. Range of Wave.
3. High attraction points of magnet.
4. Substances having free electrons .
5. Series combination of cell.

[5]

v) Define-

1. EMF

2. Sea breezes

(3)

Section B (20 marks)

Attempt any **Four** questions (each question carry **2.5 marks**)

- I) a) How can you change the strength of electromagnet ?
b) Write any two difference between conductors and insulators.
- II) a) The radiator of a car is painted black. Why ?
b) Name the three modes of transmission of heat energy.
- III) a) Why sound is called a longitudinal wave ?
b) How sound propagates? Explain its propagation in air.
- IV) a) Name some effects which can be caused by heat.
b) Gaps are left in between rails while laying a railway track. Why ?
- V) a) Why repulsion is called as a surest test ?
b) What are resistors ? Draw the series and parallel combination of the resistors ?
- VI) a) Why sound does not travel in space ?
b) How sound is produced by human beings ?

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से