



# SUCCESS KEY TEST SERIES

IX (English)

(Worksheet-2 Science-1 (ch- 11,12))

Science And Technology 1-

DATE:

TIME: 1 hrs

MARKS: 20

SEAT NO:

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**Q.1 A) Solve the following questions.**

**(2)**

**Name the following**

- 1) State the type of mirror used in the following :  
Kaleidoscope.
- 2) Sound with frequency smaller than 20Hz is called .....

**B) Choose the correct alternative and rewrite the sentence**

**(3)**

- 1) Medical science uses ultrasound for:
  - a. X Ray
  - b. Cataract
  - c. Plastic Surgery
  - d. Sonography
- 2) Distant lightning flash is seen before thunder is heard.
  - a. Both sound and light have same speed in air.
  - b. Speed of light in air is more than speed of sound in air.
  - c. Speed of light in air is less than speed of sound in air.
  - d. None of the above.
- 3) The velocity of sound is directly proportional to .....
  - a. temperature of the medium.
  - b. square root of density of the medium.
  - c. humidity.
  - d. square root of the temperature of the medium.

**Q.2 Solve the following questions. (Any two)**

**(4)**

- 1) State the uses of convex mirror.
- 2) Sound waves travel faster in solids than in gases.
- 3) **Distinguish between**  
Convergence and Divergence.

**Q.3 Solve the following questions. (Any two)**

**(6)**

- 1) Three mirrors are created from a single sphere. Which one of the following – pole, centre of curvature, radius of curvature, principal axis – will be common to them and which will not be common?
- 2) Explain "For echo to be heard clearly, the reflecting surface should be at a distance greater than 17 metres from the observer".
- 3) Where and why are sound absorbing materials used?

**Q.4 Solve the following questions. (Any one)**

**(5)**

- 1) How a tuning fork can produce longitudinal waves?
- 2) Explain the working of the human ear.