

Chapter: 11 to 12

Q.1 A) Choose the correct alternative and rewrite the sentence (1)

The image formed by the plane mirror is

- a. inverted b. smaller c. laterally inverted d. diminished

B) Answer the following questions. (2)

1) Find co-related terms

..... : Concave mirror :: Divergent light beam : Convex mirror

2) Find the odd man out:

- 2) Density, Temperature, Pressure, Molecular weight.

Q.2 A) Give scientific reasons (Any one) (2)

- 1) The magnification of real images is always negative.

- 2) A person observes lightning first and then hears the thunder.

B) Answer the following questions. (Any two) (4)

1) Write short notes

- 1) Sonography

2) Distinguish between

Principal focus of the concave mirror & Principal focus of the convex mirror.

- 3) Sound waves of wavelength 1cm have a velocity of 340 m/s in air. What is the frequency?
Can this sound be heard by the human ear?

Q.3 Answer the following questions. (Any two) (6)

- 1) Why does obtaining the image of the sun on a paper with the help of a concave mirror burn the paper?

- 2) An object of height 7 cm is kept at a distance of 25 cm in front of a concave mirror. The focal length of the mirror is 15 cm. At what distance from the mirror should a screen be kept so as to get a clear image? What will be the size and nature of the image?

3) Answer the questions based on the figure given below.

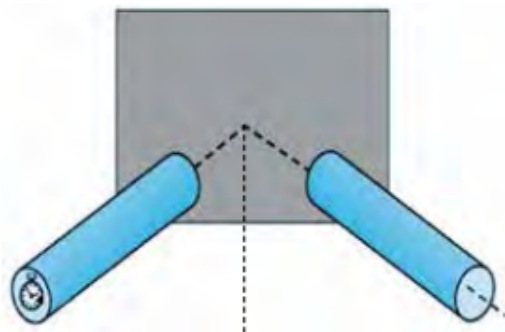


- How many waves (vibrations) does the above image represent?
- What is the frequency if the wave shown in the figure propagates in 5 seconds?
- What is the effect on wavelength if the frequency is increased?

Q.4 Answer the following questions. (Any one)

(5)

- 1) Label the diagram and explain.



- 2) What sign conventions are used for reflection from a spherical mirror?

Prism
Colours of your Dreams