

# BHARATH COACHING CENTRE

8<sup>th</sup>CBSE

Science

Total: 50

LIGHT

Time: 1.30 hrs

## SECTION – A

5 X 1 = 5

- Which of the following works on basis of multiple reflection?  
a) Telescope   b) Microscope   c) Kaleidoscope   d) Periscope
- Bouncing back of light into the same medium is called \_\_\_\_\_.  
a) Refraction   b) Reflection   c) Dispersion   d) Deviation
- Backside of a mirror would get coated with \_\_\_\_\_ material.  
a) Silver   b) Zinc   c) Copper   d) gold
- If two mirrors are placed at  $30^\circ$ , How many images will be formed?  
a) 4   b) 11   c) 9   d) 12
- Image formation in eye takes place at \_\_\_\_\_.  
a) Cornea   b) Iris   c) Retina   d) Pupil

## SECTION – B

5 X 2 = 10

- What are the characteristics of the image formed in a plane mirror?
- Differentiate between rod and cone cells.
- The angle between incident ray and reflected ray is  $100^\circ$ , what is the value of angle of incidence.
- Justify that - "Reflected light can be reflected again".
- What is the function of Retina?

## SECTION – C

5 X 3 = 15

- Demonstrate an activity and prove the laws of reflection.
- How refraction of light help in the formation of rainbow.
- How the angle of mirrors related to the number of images formed in multiple reflection?
- Explain the defects in human eye.
- What is lateral inversion? Give an example.

16. Explain the structure of Eye with a neatly labelled diagram.
17. What is Braille system? How does it works?
18. Why does light bend when it travels from air to glass? Explain the phenomena with diagram.
19. Explain the phenomena of dispersion of light.

BHARATH