



TEST PAPER: PHYSICS

Time: 45 Minutes

Class: C.B.S.E. 8

Max. Marks: 30 Marks

Date: 31st October 2018

Marking Scheme: All questions carry 10 marks each. Subparts (A) and (B) carry 3 marks each and subpart (C) carries 4 marks.

Question 1:

Q1) Fill in the blanks:

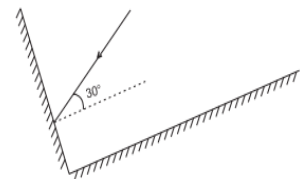
- i) Splitting of light into its constituent colors is known as _____
- ii) Visually challenged persons can read and write using _____ system
- iii) _____ cells in the eye are sensitive to bright light

Q2) Choose the correct option:

- i) Angle of incidence is equal to the angle of reflection
(a) Always (b) Sometimes (c) Under special conditions (d) Never
- ii) Image formed by a plane mirror is
(a) virtual, behind the mirror and enlarged
(b) virtual, behind the mirror and of the same size as the object
(c) real at the surface of the mirror and enlarged
(d) real, behind the mirror and of the same size as the object.
- iii) Principal of kaleidoscope is
(a) Regular reflection
(b) Irregular reflection
(c) Multiple reflection
(d) Diffused reflection

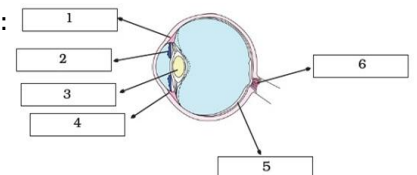
Q3) Solve:

- i) Two mirrors meet at right angles. A ray of light is incident on one at an angle of 30° as shown in Fig. Draw the reflected ray from the second mirror.



Question 2.

1. Write down the names of parts of eye in the blank spaces shown in figure:



2. Answer the following:

- a) What are the two laws of reflection?
- b) Give principle and applications of periscope and kaleidoscope
- c) Draw a neat diagram showing angle of incidence and angle of reflection.

3. Define:

- i) Angle of incidence
- ii) Angle of reflection
- iii) Regular reflection
- iv) Diffused reflection

Question 3:

1. Give reasons:

- i) We are not able to see objects in the dark
- ii) Junction of retina and optic nerve is called blind spot

2. Solve:

- i) A candle is 30 cm high. What is the height of its image in a plane mirror?
- ii) The color of iris in a person is green. What is the color of eye in that person?
- iii) A toy is placed at 10 cm in front of a plane mirror. What is the distance of image from the mirror?

3. Mention against each of the following whether regular or diffused reflection will take place when a beam of light strikes. Justify your answer in each case.

- i) Polished wooden table
- ii) Cardboard surface
- iii) Piece of paper
- iv) Marble floor with water spread over it