St. Andrews Scots Sr. Sec. School 9th Avenue, I.P. Extension, Patparganj, Delhi – 110092 Session: 2024 – 2025 (Worksheet-13)

Class:	VIII	Subject: Science		Chapter: Light	
Q.1. Define:					
a) Reflection					
b) Dispersion of light					
c) Myopia					
	d) Hypermetropia				
Q.2. Fi	ll in the b	lanks:			
a) The ray of light which strikes the reflecting surface is called					
	b) is the perpendicular line on the incidence point.				
	c) When the mirrors are inclined at 90°, we get images.				
	The space between the cornea and lens is filled with a liquid called				
e)	Braille system was invented by				
a) b)	Front bulg (i) cornea (ii) iris (iii) retina Type of n (i) convex (ii) plane (iii) conca	nirror used as side view a mirror mirror mirror ave mirror.	mirr	or is	
	left hand i (i) lateral (ii) diffrac (iii) reflec	in the image. This pheno inversion ction ction	ome		
u)	The nature of image formed by plane mirror is (i) real and inverted				
	` /				
	` /	l and erect			
	(iii) real a	na efect.			

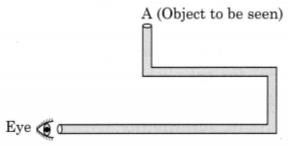
Q.4. State whether the following statement is true or false.

- a) Deficiency of vitamin B causes night blindness.
- b) Both incident ray and reflected ray lie in the same plane.
- c) Ciliary muscles changes the shape of the lens in the eye.
- d) In the Braille system, patterns are made with coloured dots.
- e) Kaleidoscope is based on the principle of dispersion of light.

Q.5. Short Questions Answers:

- a) Differentiate between rod and cone cells.
- b) What is the power of accommodation?

c) Boojho planned an activity to observe an object A through pipes as shown in the given figure, so that he could see objects which he could not directly see.



- (a) How many mirrors should he use to see the object?
- (b) Indicate the positions of the mirrors in the figure.
- (c) What must be the angle with respect to the incident light at which he should place the mirrors?
- (d) Indicate the direction of rays in the figure.
- (e) If any of the mirrors is removed, will he be able to see the object?
- d) Differentiate between regular and diffused reflection. Does diffused reflection mean the failure of the laws of reflection?