

**DELHI PUBLIC SCHOOL JAMMU**  
**SESSION-2025-26**  
**MONTH-APRIL**  
**ASSIGNMENT SHEET**

CLASS-X

MARKS-16

SUBJECT - PHYSICS

1. \_\_\_\_\_ cannot change if a light travels from rarer to denser medium 1
- (a) Wavelength  
(b) Frequency  
(c) Velocity  
(d) Density

Following question consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (e) Both A and R are true and R is the correct explanation of A.  
(f) Both A and R are true but R is not the correct explanation of A.  
(g) A is true but R is false.  
(h) A is false but R is true.

2. Assertion : Light travels in a straight line 1  
Reason : Light is a electromagnetic wave

3. Give two properties of light. 2

4. Define magnification and give its significance. 3

5. (a) What are Spherical mirrors ? Explain  
(b) Explain the image formation by concave mirror when object is at F and between F & P. 5

6. An object of height 5cm is placed at a distance of 15cm away from a concave mirror of  
of radius of curvature 10cm.

Answer the following questions:

- (a) What is the focal length of concave mirror? 1  
(b) What is the image distance for above condition? 2  
(c) Under what condition it forms erect and magnified image? 1

OR

- (d) Under what condition it forms real, inverted and same size image? 1