



**HEM SHEELAMODELSCHOOL**  
**DURGAPUR**  
**PHYSICS ASSIGNMENT**  
**PHYSICS**  
**CLASS-VIII**

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**STAR AND THE SOLAR SYSTEM AND LIGHT**

- 1 Why do we see only one face of the moon from the earth?
- 2 Explain why pole star appears to be stationary in the sky, while all other star appear to revolve around it from east to west?
- 3 A star is at a distance of  $2.838 \times 10^{16}$  m from earth. How much time does the light take to reach the earth from this star?
- 4 If a star which is 100 light years away from earth extinguishes now. When will you stop getting light from this star?
- 5 How do meteorites help in getting information about space?
- 6 Can you light fire on moon? Why?
- 7 With the help of which artificial satellites are we able to watch live telecast of Olympics matches?
- 8 Why does the geostationary satellites appears to be stationary from earth?
- 9 Name the artificial satellite used for remote sensing?
- 10 What is the time period of : Geostationary satellite b) Polar satellite
- 11 Ram is able to see the words written on the blackboard in the class but is not able to read the news paper properly? Which eye disease is he suffering from? Give the ray diagram of the defective as well as the corrective eye.
- 12 An optician suggested Shefali to wear a concave lens. Which point (Near point/far point) of her eye is affected? Name the eye defect. Draw the necessary ray diagram
- 13 Three friends Gudia, Mona and Labboo went for an eye check up. Complete the following table with the help of the hints below

Name of the friend	Near point	Far point	Corrective lens (if any)
Labboo	25cm	infinity	
Gudia	1m		Convex lens
Mona	25 cm	3m	

- 16 How many images are formed when two mirrors are perpendicular to each other? Draw the necessary diagram to show. Also mark the image which is not laterally inverted. Give reason in support of your answer