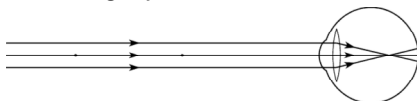


07. HUMAN EYE AND COLOURFUL WORLD

1. Ravi is suffering from Myopia. Which type of lens do you suggest for him?
2. Define 1 diapter of power of lens.
3. Find the power of a concave lens with focal length 2m.
4. Two observers standing apart from one another. Do they observe same rain bow?
5. Write the differences between lenses in the view of usage in correcting eye problems.
6. Write any two uses of concave lens.
7. What are the conditions for occuring of dispersion?
8. How can you explain angle of deviation in the prism experiment, with a neat diagram?
9. Draw a diagram to show angle of deviation in a prism.
10. Where can we observe the scattering of light? Give two examples in your daily life.
11. Why the sun appears red in colour at early mornings and evenings?
12. What happened when a white paper stained with oil?
13. Which is not change during refraction?
14. Does eye lens form real image or virtual image?
15. How can ciliary muscles useful in our eye? Appreciate them.
16. Why should we close our eyes, when a sudden light focused to our eyes?
17. A boy of 10 year old is studying by placing the book at a distance of 12 cm. Can he read the book comfortably? Support you answer.
18. Doctor advised Ramu to use 2D lens. What is the focal length of the lens?
19. A prism with an angle $A = 60^\circ$ produces an angle of minimum deviation of 30° . Find the refractive index of material of the prism.
20. Can you guess the reason for why sun does not appear red during noon hours?
21. Why the Sun appears red during sun rise and sun set?
22. What do you observe in a soap bubble? Do you observe the seven colours (VIBGYOR) of a rainbow? Explain.
23. Explain why the sky appears blue in colour.
24. What can we do to correct the following eye defect.



25. Explain two activities for the formation of artificial rainbow in your class room.
26. Sruthi replied the correct answer 'prism' for a question asked by the teacher.

Can you guess the question ?

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27. In the process of eye donation, Cornea was collected. Can you guess the reason ?

28. In the process of eye donation, Cornea was collected. Can you guess the reason ?

29. The water in the sea is blue. But the water in a glass is not blue. Why ?

30. Write about the functioning of eye by using the following terms.

Object → Lenses → Retina → Image → Optical nerve → Mind → Image.

Use ↑ for erect image or ↓ for inverted image

31. Between which particular angles of vision, we can observe the colours of a Rainbow.

(VIBGYOR)

32. Dr. Shobha wrote + 1.5 in her prescription after examined Sasank meenan.

What do you understand about the eye defect of Sasank meenan ?

33. Name at least one defect of vision which can not be corrected by using lenses ?

34. Write any one effect produced by scattering of light.

35. What is the nature of the image formed on the retina in human eye?

36. What are the causes of Myopia ?

37. Sailu gathered information from doctors about lenses used to correct eye defects. Can you guess any two questions that sailu asked the doctors while she was interviewing them ?

38. What is the maximum power of accommodation of eye for a man with normal vision ?

39. Compare human eye with a camera.

40. The path of light is visible if we project light through a suspension. This is called Tyndall effect. Which process of light is caused for Tyndall effect ?