

CHAPTER -15. LIGHTWORKSHEET FOR MODULE- 3/3**Q.1. Fill in the blanks :-**

- (a). Rainbow has _____ colours.
- (b). _____ lens is thicker at the middle than at the edges.
- (c). Magnifying glass is a _____ lens.
- (d). _____ lens always forms virtual image
- (e). _____ lens is diverging whereas _____ lens is converging.

Q.2. State whether following statements are true or false

- (a). A concave lens always forms real image.
- (b). A convex lens is thinner in the middle and thicker at the edges.
- (c). Convex lens converges the the rays of light to a single point.
- (d). When Newton's disc is rotated fast , it appears black.
- (e). Lenses are used in spectacles to see objects clearly.

Q.3. Answer the following questions

- (a). What happens when a beam of white light enters a prism ?
- (b). State any two uses of convex lens.
- (c). Write a short note on Newton's disc.
- (d). State two differences between a convex and a concave lens.
- (e). Write an activity to show that light consists of seven colours.
- (f). Draw the shapes of convex and concave lens.
- (g). Show with the help of a figure how white light splits into seven colours on passing through a prism.
- (h). What happens when magnifying lens is kept close to a paper in open sun light ?

Q.4. Mohan observes sky after rain .He saw a pattern of colours formed in the sky. What is this called? Name the colours observed by Mohan in the correct sequence.