

## PRACTICE TEST PAPER: CLASS-X

### LIGHT

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1. Which type of mirror does produce only virtual image?
2. What is understood by 'lateral inversion' of an image?
3. An object, 4.0cm in size is placed at 25cm in front of a concave mirror of focal length 15cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? Find the nature and the size of the image.
4. Define 1 dioptre of power of lens.
5. A 2cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 10cm. The distance of the object from the lens is 15cm. Find the nature, position and size of the image. Also find its magnification.
6. An object 5.0 cm in length is placed at a distance of 20 cm in front of a convex mirror of radius of curvature 30cm. Find the position, nature and size of the image.
7. Find the focal length of lens of a power – 2.0D.
8. Explain the magnetic field due to a straight wire carrying current.
9. Explain the right hand thumb rule?
10. How will the magnetic field set up by a solenoid change when (i) current is decreased (ii) soft iron core introduced into it?
11. Draw a diagram to show field lines of magnetic field through and around a solenoid carrying current.
12. What is power of accommodation? Explain the role of rod and cone in human eye.
13. A person with myopic eye cannot see objects beyond 1.2m distinctly. What should be the type of the corrective lens used to restore proper vision? Explain with the help of diagram.
14. A person needs a lens of power -5.5 dioptre for correcting his distant vision. For correcting his near vision he needs a lens of power +1.5 dioptre. What is the focal length of the lens required for correcting (i) distant vision (ii) near vision?
15. Why does the sun appear reddish early in the morning?
16. Explain main principle of motor.

17.What is the function of an earth wire?

DPM EDUCATIONS