**Aarambh classes**

**Class X(CBSE )**

**Physics test**

**Refraction of light**

**Time : 1 hour M.Marks : 25**

1. Light enters from air into a glass plate having refractive index 1.50.What is the speed of light in glass ?
2. If the refractive index of water for light going from air to water be 1.33 ,what will be the refractive index for light going from water to air ?
3. An object is placed at the following distances from a convex lens of focal length 10 cm.
4. 8 cm (b)15 cm (c) 20 cm (d) 25 cm

Which position of the object will produce :

1. A diminished real image
2. A magnified real image
3. A magnified virtual image
4. An image of the same size as the object ?
5. A convex lens of focal length 10 cm is placed at a distance of 12 cm from a wall .How far from the lens should an object be placed so as to form its real image on the wall?
6. If an object of 7 cm is placed at a distance of 12 cm from a convex lens of focal length 8 cm ,find the position ,nature and height of the image .
7. An object placed 50 cm from a lens produces a virtual image at a distance of 10 cm in front of the lens .Draw a diagram to show the formation of image .Calculate the focal length of the lens and the magnification produced .
8. An object 5 cm in length is held 25 cm away from a converging lens of focal length 10 cm.Draw the ray diagram and find the position,size and nature of the image formed .
9. (i) Find the focal length of a lens of power -2D.What type of lens is this ?

(ii)A doctor has prescribed a corrective lens of power +1.5 D.Find the focal length of the lens .Is the prescribed lens diverging or converging ?